

**NPDES
INSPECTION REPORT**

**CITY OF BLACKFOOT, ID
WASTEWATER TREATMENT FACILITY**

March 14, 2012

**Prepared by:
David Domingo
NPDES Compliance Unit
Office of Compliance and Enforcement
Environmental Protection Agency, Region 10**

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(Unless otherwise noted, all details in this inspection report were obtained from conversations with Mr. Rex Moffat, Acting WTP/WWTP Supervisor for the City of Blackfoot, ID and Ms. Jacque Nation, Laboratory Technician)

I. Facility Information

Facility Name: City of Blackfoot, ID Wastewater Treatment Plant
(Facility)

Facility Type: Sewage Treatment Plant

Facility Location: 2025 Riverton Road
Blackfoot, ID 83221
Latitude: +43.1822
Longitude: -112.3872

Mailing Address: 157 N Broadway
Blackfoot, ID 83221

Facility Contacts: Rex Moffat, Acting WTP/WWTP Supervisor

Facility Numbers: Ph: (208) 785-8616 (WWTP)
Fax: (208) 785-8614

Permit Number: ID-002004-4

Permit Status: The current permit became effective November 28, 2000
and expired on November 28, 2005. The City reapplied in
May 2005 and the permit is administratively extended.

SIC Code: 4952

II. Inspection Information

Inspection Date/Time: March 14, 2012 9:00 AM to 5:30 PM

Inspectors: David Domingo (EPA) and Craig Borrenpohl (IDEQ,
Pocatello)

Weather: Partly cloudy

Purpose: Determination of compliance with the NPDES Permit and
the Clean Water Act. The City's pretreatment program was
not evaluated during this inspection.

III. Inspection Entry

This was an announced inspection. Mr. Moffat was contacted the week prior to the March 14th inspection date and emailed a copy of the status report developed by EPA (see Attachment D).

I met Mr. Moffat at the Facility at approximately 9:00 AM.

I presented my credentials and discussed the purpose of the visit with Mr. Moffat prior to the inspection. I was not denied access to the Facility.

I was accompanied throughout the inspection by Mr. Moffat except during the review of the onsite laboratory in which Ms. Nation accompanied me.

IV. Inspection Chronology

On March 14, 2012, the inspection began with an entry interview, followed by a file review and tour of the Facility which is located on the southwest side of the City at 2025 Riverton Road (see Attachment A). The Facility tour included an inspection of the treatment units and a review of the sample collection and analytical procedures at the onsite laboratory. As part of the file review, the Facility's quality assurance plan (QAP), the operation and maintenance (O&M) manual and discharge monitoring reports (DMRs) were reviewed. There are several operators responsible for sample collection and onsite analysis. Mr. Moffat is responsible for filling out and signing the DMRs. The City uses NetDMR to submit electronic DMRs.

The inspection then concluded with an exit interview where I pointed out the areas of concern I observed during the inspection.

V. Owner and Operator Information

The Facility is currently owned and operated by the City of Blackfoot, Idaho.

VI. Background

The permit authorizes the Facility to discharge through outfall 001 to the Snake River. Based on the May 2005 permit reapplication submitted by the City, the Facility receives wastewater from local residents and commercial establishments in the City of Blackfoot, Groveland Sewer District and Moreland Sewer District. In addition, the Facility receives wastewater from four significant industrial users or SIUs (i.e. Blackfoot Cheese, Basic American Foods, Nonpareil IPP and American Linen Supply Company). The City has an EPA approved pretreatment program which regulates the discharges from these SIUs to the collection system. The current service population is approximately 12,700 and the Facility has a design flow of 5.0

million gallons per day (MGD) and an actual annual average daily flow of 2.2 MGD. Note the area of concern below regarding the correct design capacity of the Facility.

The collection system is 100% separated sanitary sewer.

VII. Waste Management Process

The Facility is a mechanical treatment plant in which influent flows through primary grit removal at the headworks, primary clarifier, aeration basins, secondary clarifiers and UV disinfection prior to discharging to the Snake River. Sludge is treated in several digesters and dewatered using polymer addition and centrifuge prior to land application.

At the time of inspection, all treatment units were operational except for one of the sludge digesters. See Attachment B for photo documentation of the units and process flow diagrams.

VIII. Facility Sample Collection and Analyses

The sample collection and onsite analyses are conducted by several individuals including Ms. Nation.

The parameters analyzed onsite using monitoring equipment include flow (influent and effluent), pH, temperature, turbidity, biochemical oxygen demand (BOD), total suspended solids (TSS), fecal coliform and *Escherichia coli* (*E. coli*).

The other parameters listed in Part I.B (Effluent Monitoring Requirements) of the Permit including total phosphorus, ortho-phosphorus, total ammonia, nitrate-nitrite, total kjeldahl nitrogen... are analyzed by an outside laboratory (i.e. Analytical Laboratories, Inc., 1804 N. 33rd Street, Boise, ID 83201 Ph: (208) 342-5515).

See Attachment B for photo documentation of the City's QAP, certificate of analyses and laboratory benchsheets.

IX. Areas of Concern

This inspection included a review of the treatment system, the sample collection and analyses procedures, and documentation required by the Permit. During the course of this inspection, I observed and identified the following areas of concern:

- A. Part I.B of the Permit specifies that the permittee must collect 24-hour composite samples for BOD, TSS, lead, hardness, alkalinity, turbidity, total ammonia, nitrate-nitrite, total Kjeldahl nitrogen, ortho-phosphorus, total phosphorus and whole effluent toxicity. Part IV.P of the Permit specifies that a "24-hour composite" sample shall mean a flow proportioned mixture of at least eight discrete aliquots which shall be a grab sample of not less than 100 ml. At the time of the inspection, the City was

collecting time proportioned samples (i.e. 100-150 ml every ten minutes). My concern is the City was not collecting flow proportioned 24-hour composite samples as specified in Part I.B of the Permit.

- B. Quality Assurance Project Plan (QAP) Part I.E of the Permit specifies that the permittee develop and implement a QAP for all monitoring required by the Permit. At a minimum, the QAP must include the following:
- a. sampling techniques (field blanks, replicates, duplicates, control samples, etc); sampling preservation methods; sampling shipment procedures; instrument calibration procedures and preventive maintenance (frequency, standard, spare parts); qualification and training of personnel; analytical test method that will be used to achieve the method detection limits in Part I.D.4.; and analytical methods (including quality control checks, quantification/detection levels).
 - b. Name(s), address(es), and telephone number(s) of laboratories used by or proposed to be used by the permittee.

In addition, the permittee must use the EPA approved quality assurance/quality control (QA/QC) and chain-of-custody procedures described in *EPA's Requirements for Quality Assurance Project Plans, EPA-QA/R-5* and *Guidance for Quality Assurance Project Plans, EPA QA/G-5*. At the time of the inspection, the QAP did not specify EPA approved methods, holding times, current sample preservation temperatures (i.e. $< 6^{\circ}\text{C}$ or 10°C but not frozen) and quantification/detection levels. In addition, the QAP specified the addition of H_2SO_4 for sample preservation but did not include verification procedures to ensure $\text{pH} < 2$ as required in EPA approved methods. My concern is the QAP did not include all the information specified in Part I.E of the Permit.

- C. Design Criteria Requirements Part I.F.2 of the Permit specifies that the permittee must compute an annual average value for flow, and BOD and TSS loading entering the Facility based on the previous twelve months of data. At the time of the inspection, the current spreadsheet used to calculate the annual average value for flow, BOD loading and TSS loading had an error (i.e. "#REF!") for the 2010 flow calculations. Mr. Moffat corrected the spreadsheet and provided a copy (see Attachment C) of the revised spreadsheet. In addition, Part I.F.3 specifies that the permittee shall notify IDEQ whenever there is an increase of more than 10% of flow based on the previous twelve months of data. The City has not determined if a 10% increase occurred. My concern is that the City did not properly calculate the annual average value for flow as specified in Part I.F.2 of the Permit and did not calculate if a 10% increase of flow occurred as specified in Part I.F.3 of the Permit. See also additional observations below regarding Design Criteria Requirements.
- D. Operation and Maintenance Plan Review Part I.G of the Permit specifies that the permittee shall review its operation and maintenance (O&M) plan and ensure that it includes appropriate best management practices (BMPs). The BMPs must include measures which prevent or minimize the potential for the release of pollutants to the

Snake River. At the time of the inspection, the O&M manuals did not include any BMPs. My concern is that the O&M manuals did not include all the information specified in Part I.G of the Permit.

- E. Reporting of Monitoring Results Parts II.C and IV.H of the Permit specify that the permittee must summarize monitoring results each month on the DMR and sign and certify that the DMRs are true, accurate and complete. At the time of the inspection, the February 2012 DMR was reviewed along with the corresponding analytical data (i.e., operator's daily log book, certificate of analysis...). The following deficiencies were noted:
- a. The City reported a weekly geometric mean of 330.86 / 100 ml for fecal coliform. Based on the fecal coliform monitoring results for that week (see Attachment C), the correct result is 16.4 / 100 ml. In addition, according to Mr. Moffat, an internal review of the daily onsite laboratory benchsheets for February 2012 indicated that the operator recording the fecal coliform results was not familiar with the testing methods and consequently reported a result that was not consistent with corresponding monitoring information and likely not representative of the discharge (see Attachment B).
 - b. Part I.A of the Permit specifies weekly averages for BOD and TSS. The City reported BOD and TSS weekly average calculations for the first and last weeks of the month did not include all monitoring results within the calendar week. The calculations for these two weeks only incorporated monitoring results within the calendar month. Furthermore, the City has not clearly defined a calendar week (e.g. Monday to Sunday; Saturday to Friday, etc.) in applicable documents including the QAP.

My concern is that the City failed to submit true, accurate and complete DMRs as specified in Parts II.C and IV.H of the Permit.

- F. Retention of Records Part II.F of the Permit specifies that the permittee must retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. At the time of the inspection, the City could not provide a copy of the 2006 permit reapplication and the April 2011 and October 2011 DMRs. My concern is that the City failed to retain records as specified in Part II.F of the Permit and cannot confirm that receiving water reports were submitted to EPA as specified in Part I.D.5 of the Permit.

X. Additional Observations

- A. Total Residual Chlorine Requirements Part I.A.5 of Permit specifies that once UV disinfection has been fully implemented at the Facility and the permittee has notified

EPA and IDEQ, the TRC limitations and monitoring requirements will no longer be applicable. According to Mr. Moffat, the major Facility upgrades including installation of UV disinfection occurred in 2002. The UV system went online on August 17, 2002. Currently, there is no chlorine disinfection equipment at the Facility. As part of submitting the monthly reports through NetDMR, Mr. Moffat inputs the computer code "NODI 9" for the TRC monitoring results. My concern is that the electronic DMRs still include TRC limits and monitoring requirements.

- B. Part I.A.6 of the Permit specifies new loading limits for BOD, TSS and total ammonia when the expansion of plant capacity to 5.1 MGD is completed. According to the design documents provided by Mr. Moffat (see Attachment B), the current plant capacity is 2.6 MGD annual average day, average daily maximum month is 3.2 MGD and peak hour is 5.1 MGD. During the inspection, Mr. James Mullen, Keller Associates, stopped by the Facility and stated that the design capacity for the Facility is actually 3.2 MGD not 5.1 MGD. My concern is that the current loading limits for BOD, TSS and total ammonia are based on the peak hour flow rate of 5.1 MGD and not the correct design capacity of 3.2 MGD. Furthermore, the correct design criteria (influent BOD and TSS loadings) identified on the engineering documents are not reflected in Part I.F (Design Criteria Requirements) of the Permit. In addition, the old effluent limits identified in Part I.A.3 are currently reflected on the monthly DMRs. During the inspection, Mr. Moffat corrected the spreadsheet used to calculate the annual average value for flow and BOD and TSS loading into the Facility (see Attachment C).
- C. Part I.B.3 specifies that chronic toxicity testing requirements are triggered when the no observable effect concentration (NOEC) for the whole effluent toxicity (WET) tests exceed 48.1 TUc. According to Ms. Nation, the City has not exceeded that trigger concentration.
- D. Receiving Water Monitoring Part I.D.2 specifies that river samples shall consist of three grab samples, one from each side of the river and one from the middle if the USGS Equal Width Increment method of monitoring is not used. According to Ms. Nation, does not use the USGS method and all receiving water monitoring consist of grab samples. In addition, Footnote 5 in Part I.D.3 specifies that monitoring for copper, lead, zinc, hardness and alkalinity shall continue until 12 samples have been collected. Ms. Nation stated that all required samples were collected within 2-3 years and sampling for these parameters stopped in approximately 2003 or 2004.
- E. Quality Assurance Project Plan (QAP) Part I.E of the Permit specifies that the permittee develop and implement a QAP for all monitoring required by the Permit. At the time of the inspection, several operators were responsible for collecting and analyzing samples in the onsite lab (see Attachment B for photo documentation of daily onsite laboratory benchesheets). The QAP did not include the names of the operators responsible for sample collection and analysis. My concern is that the City cannot readily verify the initials on the daily benchesheets unless the names are specified in the QAP.

F. Signatory Requirements Part IV.E of the Permit specifies that all reports required by the Permit and other information requested by the Director shall be signed by the ranking elected official (i.e. mayor) or by a duly authorized representative of that person. At the time of the inspection, Mr. Moffat was signing the monthly DMRs. During the inspection, Mr. Moffat provided a copy of the Subscriber Agreement which specifies that Mr. Moffat is the individual that intends to sign the DMRs (i.e. page 2 of 7, see Attachment C).

XI. Inspection Sampling

Samples were not collected by EPA at the time of this inspection.

Report Completion Date:

May 8, 2012

Lead Inspector Signature:

David J. Denny

ATTACHMENT A

Aerial Photographs

**City of Blackfoot, Idaho
Wastewater Treatment Facility**

(March 14, 2012 Inspection)



Aerial photograph of the City of Blackfoot, ID wastewater treatment plant. Facility is located on the southwest side of the City at 2025 Riverton Road and discharges effluent to the Snake River.



Aerial photograph of the City of Blackfoot, ID wastewater treatment plant. Facility is located on the southwest side of the City at 2025 Riverton Road and discharges effluent to the Snake River.

ATTACHMENT B

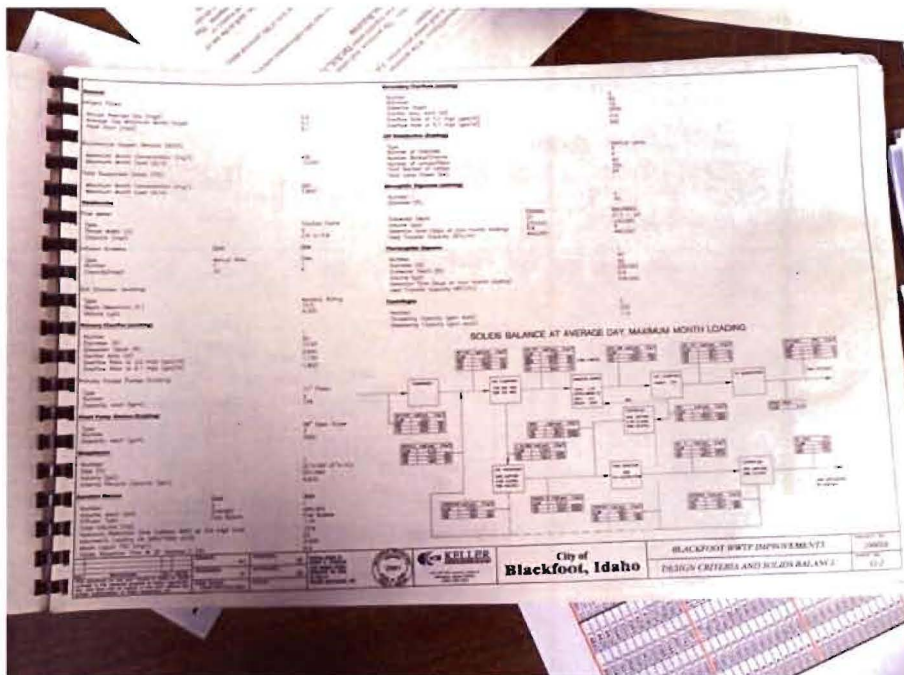
Photograph Documentation

City of Blackfoot, Idaho Wastewater Treatment Facility

(March 14, 2012 Inspection)

Year	Month	Flow	12 Month Average	12 Month Low	12 Month High	12 Month Avg	12 Month Low	12 Month High	12 Month Avg	12 Month Low	12 Month High
2009	Jan	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Feb	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Mar	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Apr	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	May	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Jun	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Jul	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Aug	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Sep	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Oct	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Nov	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2009	Dec	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Jan	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Feb	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Mar	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Apr	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	May	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Jun	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Jul	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Aug	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Sep	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Oct	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Nov	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2010	Dec	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Jan	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Feb	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Mar	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Apr	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	May	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Jun	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Jul	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Aug	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Sep	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Oct	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Nov	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2011	Dec	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Jan	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Feb	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Mar	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Apr	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	May	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Jun	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Jul	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Aug	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Sep	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Oct	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Nov	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534
2012	Dec	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534	1.4534

Photograph by David Domingo (EPA) on March 14, 2012 looking at the spreadsheet on Mr. Moffat's computer used to calculate the annual average value for flow, BOD loading and TSS loading as specified in Part I.F of the Permit. Note the current spreadsheet had an error (i.e. "#REF!") for the 2010 flow calculations. Also, the spreadsheet included design criteria of 5.1 MGD vs the correct average daily flow design criteria of 3.2 MGD.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the design documents provided by Mr. Moffat regarding the new Facility. The documents were drafted by Keller Associates in February 2001.

72

New

1
650,000
Fine Bubble
1.70
12.8
53
3,500
6.4

OVERFLOW	mgd/ppd	(mg/l)
FLOW	0.033	
TSS	475	475
VSS	356	356

SB ORIGINAL SIGNED BY:
SUSAN K. BURNHAM
DATE ORIGINAL SIGNED:
FEBRUARY 22, 2001
ON FILE AT:
KELLER ASSOCIATES, INC.

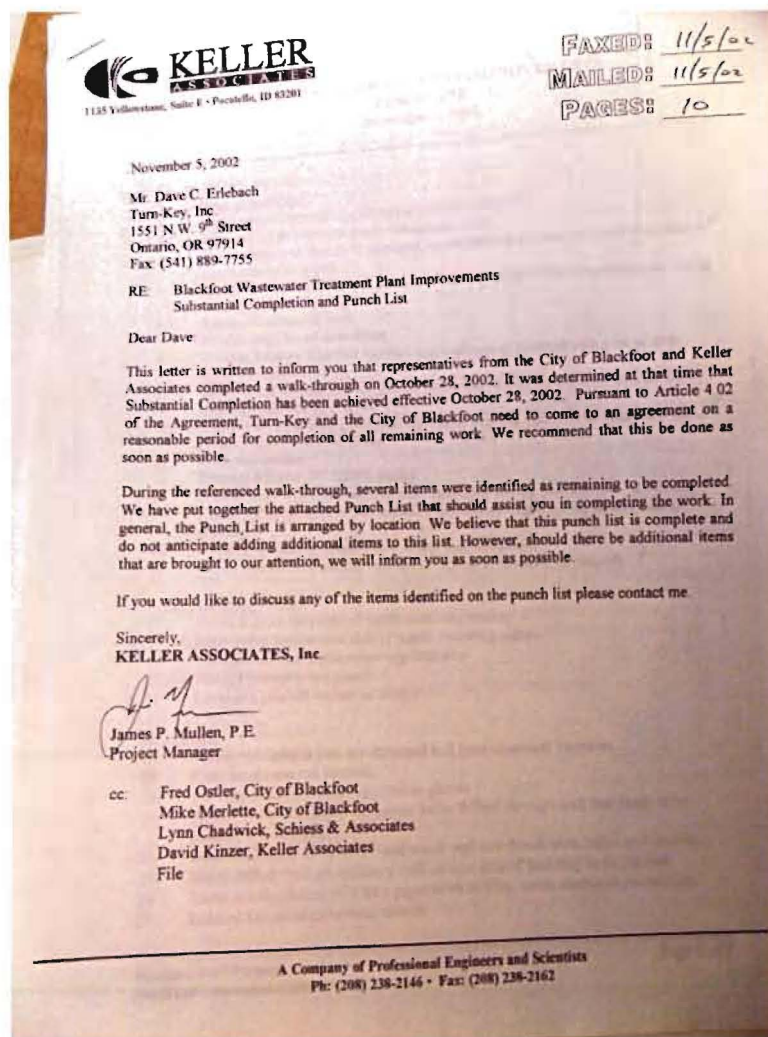
REGISTERED PROFESSIONAL
ENGINEER
2991
STATE OF IDAHO
SUSAN K. BURNHAM

KELLER ASSOCIATES
131 SW 5th Avenue, Suite A
Meridian, Idaho 83642
(208) 288-1992

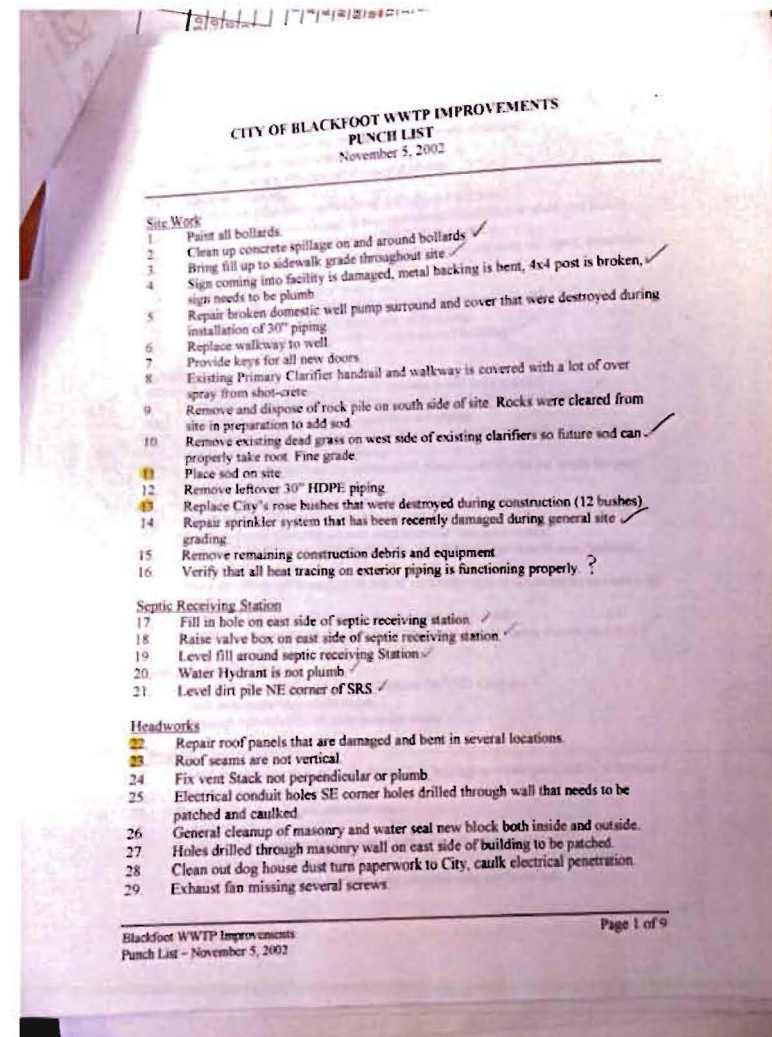
Photograph by David Domingo (EPA) on March 14, 2012 looking at the design documents provided by Mr. Moffat regarding the new Facility. The documents were drafted by Keller Associates in February 2001.

General		Secom
Influent Flows		Numl
Annual Average Day (mgd)	2.6	Diam
Average Day Maximum Month (mgd)	3.2	Side
Peak Hour (mgd)	5.1	Charl
Biochemical Oxygen Demand (BOD5)		Over
Maximum Month Concentration (mg/l)	450	Ove
Maximum Month Load (lb/d)	12,000	
Total Suspended Solids (TSS)		
Maximum Month Concentration (mg/l)	290	
Maximum Month Load (lb/d)	7,800	
Headworks		
Flow Meter		
Type	Parshall Flume	
Throat Width (in)	9	
Capacity (mgd)	0.5 to 5.8	
Influent Screens		
Type	Manual Rake	
Number	1	
Capacity (mgd)	10	
Grit Chamber (existing)		
Type	Aerated, Rolling	
Depth (Maximum Ft.)	15.5	
Volume (gal)	9,300	
Primary Clarifier (existing)		

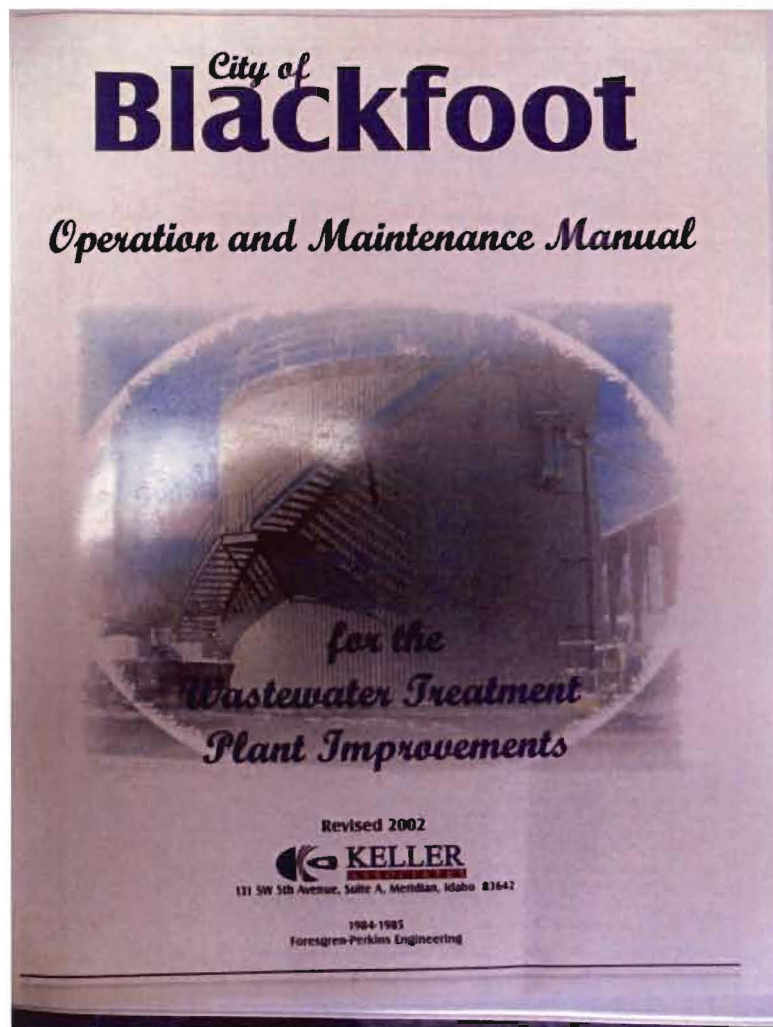
Photograph by David Domingo (EPA) on March 14, 2012 looking at the design documents provided by Mr. Moffat. Note the current plant capacity is 2.6 MGD annual average day, average daily maximum month is 3.2 MGD and peak hour is 5.1 MGD. The document also included information relating to BOD and TSS concentrations and loadings.



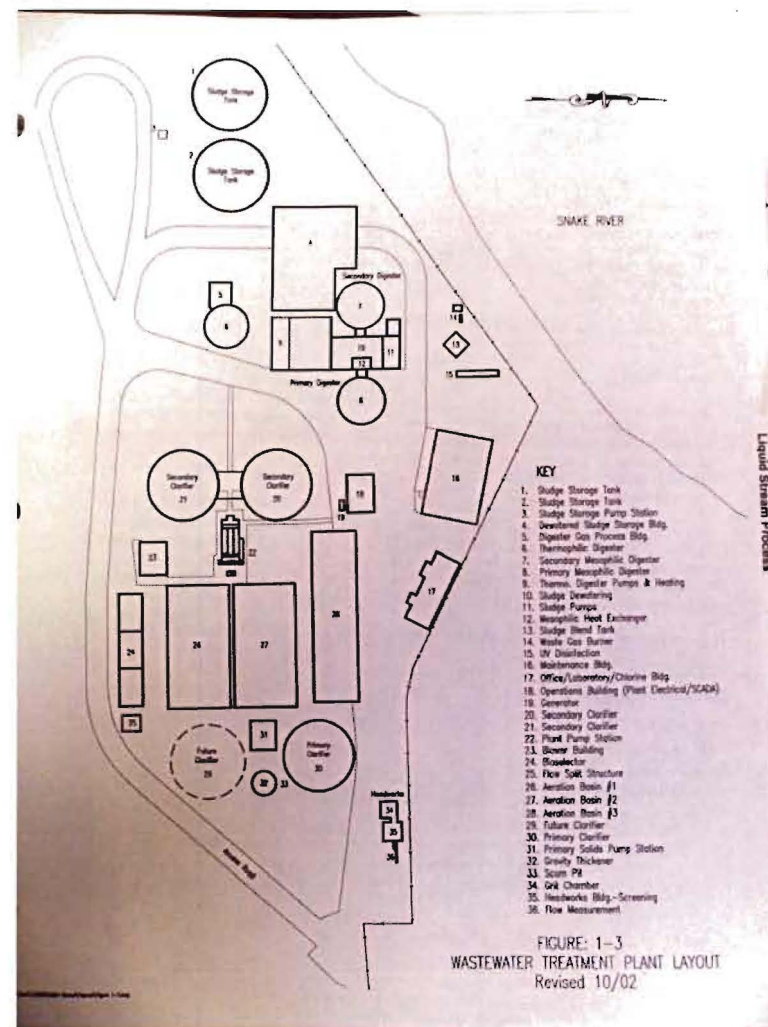
Photograph by David Domingo (EPA) on March 14, 2012 looking at November 2002 correspondence from Keller Associates regarding completion of the new Facility.



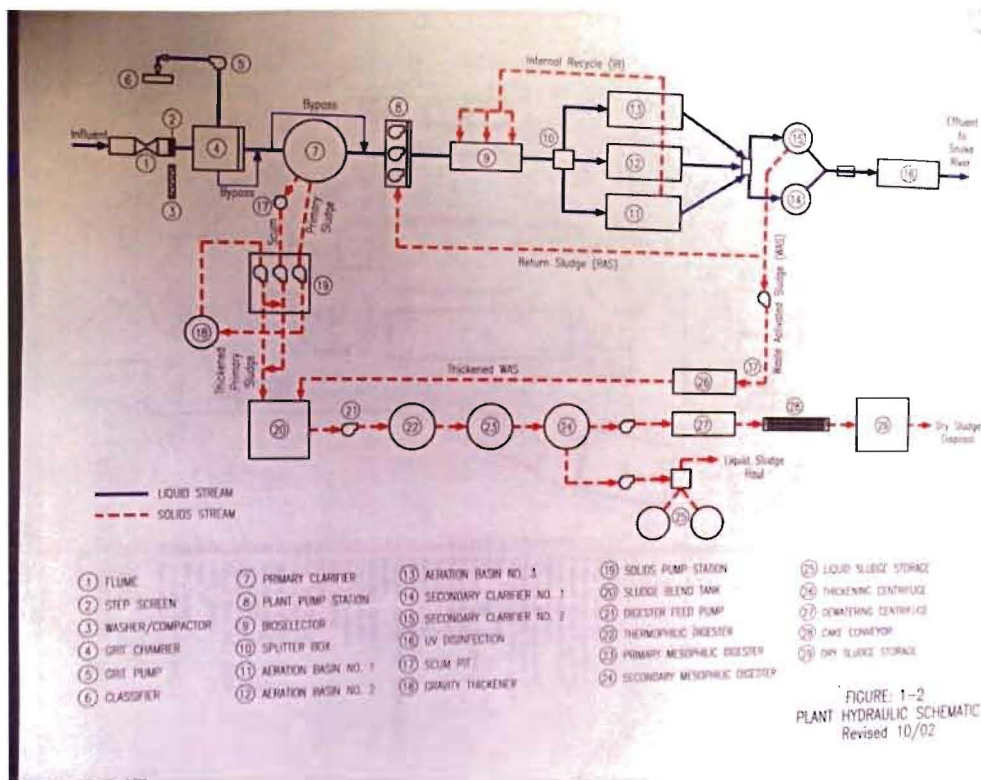
Photograph by David Domingo (EPA) on March 14, 2012 looking at November 2002 correspondence from Keller Associates regarding completion of the new Facility.



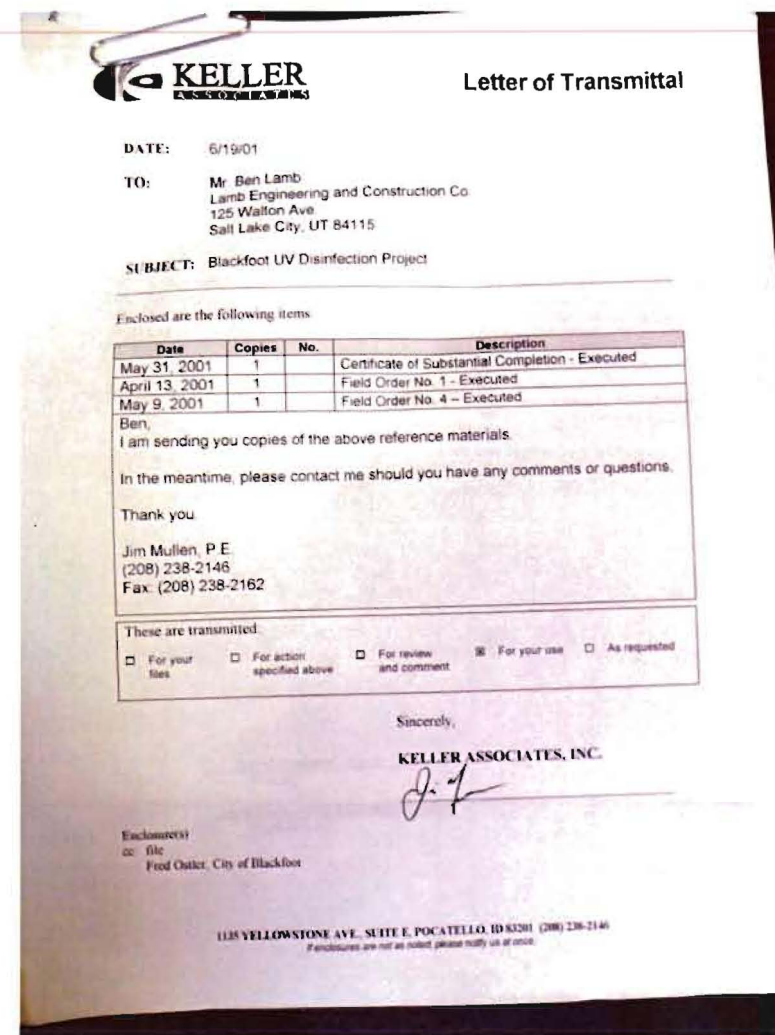
Photograph by David Domingo (EPA) on March 14, 2012 looking at the Operation and Maintenance (O&M) Manual for the Facility.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the process schematic of the Facility in the O&M manual.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the hydraulic schematic of the Facility in the O&M manual.



Photograph by David Domingo (EPA) on March 14, 2012 looking at correspondence from Keller Associates regarding completion of the new Facility.

CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner's Project No. _____

Engineer's Project No.: 199020

Project: City of Blackfoot UV Disinfection Project

Contractor: Lamb Engineering & Construction Co.

Contract For: \$566,949 and 213 days (includes all approved change orders)

Contract Dates:

Effective Date of Agreement	December 27, 2000
Contract Time Commenced to Run	January 16, 2001
Contract date of Substantial Completion	July 15, 2001
Actual date of Substantial Completion	May 31, 2001
Contract date of Final Completion	August 14, 2001
Contract date of Final Completion (revised to include change orders)	August 17, 2001

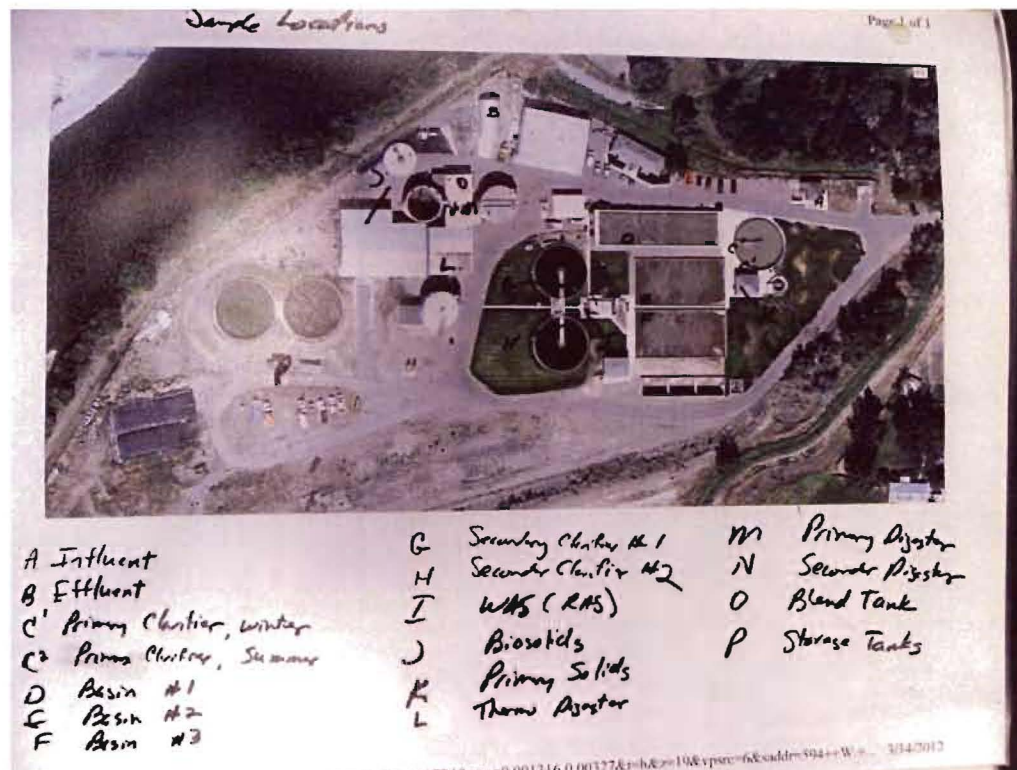
The Certificate of Substantial Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

- All work under the Contract Documents

TO: City of Blackfoot, Idaho
(Owner)

AND TO: Lamb Engineering & Construction Co.
(Contractor)

Change Order
(Rev 4/89)



Photograph by David Domingo (EPA) on March 14, 2012 looking at the correspondence from Keller Associates regarding completion of the new Facility.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the map in the QAP which identifies the influent and effluent monitoring locations.

SOP Table of Contents

- Alkalinity
- Ammonia
- BOD, D. O.
- Chlorine
- Choosing Contract Lab
- E. coli and Fecal Coliform
- Fecal Coliform
- Hardness
- Nitrite-Nitrate
- Phosphates Total and Ortho
- Pretreatment Sample Collection
- River Sample Collection
- Temperature
- Total Kjeldahl Nitrogen
- Total Solids
- Total Suspended Solids
- Turbidity
- Volatile Acids

Photograph by David Domingo (EPA) on March 14, 2012 looking at the Table of Contents for the QAP.

PH SOP
Revision # 1
1/29/02
1 of 4

**STANDARD OPERATING PROCEDURE (SOP)
FOR Total Alkalinity**

Reference: *Standard Methods for the Examination of Water and Wastewater*, 20th edition
Method number
2320

Basic Laboratory Procedures for Wastewater Examination
4th Edition, page 32-34

Operation of Wastewater Treatment Plants,
5th edition, page 544-546

Prepared by: Jacque Nation Date: 03/21/03
Lab Tech

Reviewed by: _____ Date: _____

Approved by: _____ Date: _____

Photograph by David Domingo (EPA) on March 14, 2012 looking at the QAP which describes sampling method and preservation requirements.

1-33

COLLECTION AND PRESERVATION OF SAMPLES (Cont.) Collection of Samples

TABLE 1060.1. SUMMARY OF SPECIAL REQUIREMENTS AND MAXIMUM RECOMMENDATIONS*

Determination	Container†	Minimum Sample Size, ml.	Sample Type	Preservation‡	Maximum Storage	
					Recommended	Regulatory§
Acidity	P, GR	100	E	Refrigerate	24 h	14 d
Alkalinity	P, G	200	E	Refrigerate	24 h	14 d
BOD	P, G	1000	E, C	Refrigerate, $< 2^{\circ}\text{C}$	6 h	6 months
Boron	P, G (TTE) or quartz	1000	E, C	1000, to pH < 2	28 d	28 d
Bromide	P, G	100	E, C	None required	1 d	28 d
Carbon, organic, total	G (H)	100	E, C	Analyze immediately, or refrigerate and add HCl , H_2PO_4 , or H_2SO_4 to pH < 2	0.25 h	N.S.
Carbon dioxide	P, G	100	E	Analyze immediately	7 d	28 d
Chloride	P, G	100	E, C	Analyze as soon as possible, or add H_2SO_4 to pH < 2 ; refrigerate	N.S.	28 d
Chloride, total, residual	P, G	300	E	None required	0.25 h	0.25 h
Chlorine dioxide	P, G	300	E	Analyze immediately	0.25 h	N.S.
Chlorophyll	P, G	300	E	Analyze immediately	24-48 h	28 d
Color	P, G	300	E, C	Refrigerate	28 d	28 d
Specific conductance	P, G	500	E, C	Refrigerate	28 d	28 d
Cyanide	P, G	500	E, C	Refrigerate	28 d	28 d
Total	P, G	1000	E, C	Add NaOH to pH > 12 ; refrigerate in dark	24 h	14 d; 28 h if outside present
Amenable to chlorination	P, G	1000	E, C	Add 0.5 g ascorbic acid if chlorine is present and refrigerate	28 d	28 d
Fluoride	P	100	E, C	None required	28 d	28 d
Hardness	P, G	100	E, C	Add HNO_3 or H_2SO_4 to pH < 2	6 months	6 months
Iodine	P, G	100	E, C	Analyze immediately	0.25 h	N.S.
Metals, general	P(A), G(A)	500	E	For dissolved metals filter immediately, add HNO_3 to pH < 2	6 months	6 months
Chromium VI	P(A), G(A)	1000	E	Refrigerate	24 h	24 h
Copper by colorimetry*	P(A), G(A)	1000	E, C	Refrigerate	24 h	24 h
Mercury	P(A), G(A)	1000	E, C	Add HNO_3 to pH < 2 , 4°C ; refrigerate	28 d	28 d
Nitrate	P, G	500	E, C	Analyze as soon as possible or add H_2SO_4 to pH < 2 ; refrigerate	7 d	28 d
Nitrite	P, G	100	E, C	Analyze as soon as possible; refrigerate	48 h	48 h (28 d for chlorinated samples)
Nitrate + nitrite	P, G	200	E, C	Add H_2SO_4 to pH < 2 ; refrigerate	1-2 d	28 d
Organic, Kjeldahl*	P, G	500	E, C	Analyze as soon as possible; refrigerate	7 d	28 d
Oil and grease	G, wide mouth calibrated	1000	E	Refrigerate, add H_2SO_4 to pH < 2	28 d	28 d
Organic compounds	P, G	250	E, C	Refrigerate	48 h	N.S.
MLAs	P, G	250	E, C	Refrigerate	7 d	7 d until extraction
Pesticides*	G(S), PTFE-lined cap	1000	E, C	Refrigerate, add 1000 mg ascorbic acid/L if residual chlorine present	7 d	30 d after extraction
Phenols	P, G, PTFE-lined cap	500	E, C	Refrigerate, add H_2SO_4 to pH < 2	28 d	28 d until extraction
Paraphenols* by purge and trap	G, PTFE-lined cap	2 x 40	E	Refrigerate, add HCl to pH < 2 ; add 1000 mg ascorbic acid/L if residual chlorine present	7 d	14 d

Photograph by David Domingo (EPA) on March 14, 2012 looking at the the QAP which describes sampling method and preservation requirements. Note the QAP did not specify appropriate sample preservation temperatures (i.e. $\leq 6^{\circ}\text{C}$ but not frozen).

1-34

TABLE 1060.1. CONT.

Determination	Container†	Minimum Sample Size, ml.	Sample Type	Preservation‡	Maximum Storage	
					Recommended	Regulatory§
Biocentrals & acids	G(S) amber	1000	E, C	Refrigerate	7 d	7 d until extraction; 40 d after extraction
Oxygen, dissolved	G, BOD bottle	300	E	Analyze immediately	0.25 h	0.25 h
Electrode	G	1000	E	Titration may be delayed after acidification	8 h	8 h
Winkler	G	1000	E	Analyze immediately	0.25 h	N.S.
Ozone	P, G	50	E	Analyze immediately	0.25 h	0.25 h
Phosphate	G(A)	100	E	For dissolved phosphate filter immediately; refrigerate	48 h	N.S.
Phosphorus, total	P, G	100	E, C	Add H_2NO_3 to pH < 2 and refrigerate	28 d	N.S.
Salinity	G, wax seal	240	E	Analyze immediately or use wax seal	6 months	28 d
Silica	P (PTFE) or quartz	200	E, C	Refrigerate, do not freeze	N.S.	N.S.
Sludge digester gas	G, gas bottle	—	E	Refrigerate	7 d	2-7 d; see cited reference
Subs*	P, G	200	E, C	Refrigerate	28 d	28 d
Sulfate	P, G	100	E, C	Refrigerate	28 d	28 d
Sulfide	P, G	100	E, C	Refrigerate; add 4 drops 2N zinc acetate/100 ml.; add NaOH to pH > 9	0.25 h	0.25 h
Temperature	P, G	—	E	Analyze immediately	24 h	48 h
Turbidity	P, G	100	E, C	Analyze same day; store in dark up to 24 h; refrigerate	24 h	48 h

* For determinations not listed, use glass or plastic containers, preferably refrigerate during storage and analyze as soon as possible.
† P = plastic (polyethylene or equivalent); G = glass; G(A) or P(A) = rinsed with 1 + 1 HNO_3 ; G(S) = glass, rinsed with organic solvents or baked 1 g = grab; C = composite.
‡ Refrigerate = storage at 4°C \pm 2°C in the dark; analyze immediately = analyze usually within 15 min of sample collection.
§ See citations* for possible differences regarding container and preservation requirements. N.S. = not stated in cited reference; stat = not storage allowed; anal = analyze immediately.
¶ If sample is chlorinated, see text for pretreatment.

9 U.S. ENVIRONMENTAL PROTECTION AGENCY, 1996. 40 CFR Part 136, Table II. 10 U.S. ENVIRONMENTAL PROTECTION AGENCY, 1992. Rules and Regulations. 40 CFR Parts 100-149.

1060 C. Sample Storage and Preservation

Complete and unequivocal preservation of samples, whether domestic wastewater, industrial wastes, or natural waters, is a practical impossibility because complete stability for every constituent never can be achieved. At best, preservation techniques only retard chemical and biological changes that inevitably continue after sample collection.

1. Sample Storage before Analysis

a. Nature of sample changes: Some determinations are more affected by sample storage than others. Certain cations are subject to loss by adsorption on, or ion exchange with, the walls of glass containers. These include aluminum, cadmium, chromium, copper, iron, lead, manganese, silver, and zinc, which are collected in a separate clean bottle and acidified with nitric acid to a pH below 2.0 to minimize precipitation and adsorption to container walls. Also, some organics may be subject to loss adsorption to the walls of glass containers.

Temperature changes quickly, pH may change significantly in matter of minutes, dissolved gases (oxygen, carbon dioxide) may be lost. Because changes in such basic water quality properties occur so quickly, determine temperature, reduction-oxidation potential, and dissolved gases in situ and pH, specific conductance, turbidity, and alkalinity immediately after sample collection. If organic compounds are sensitive to changes in pH and/or temperature resulting in reduced concentrations during storage.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the QAP which describes sampling method and preservation requirements. Note the QAP did not specify appropriate sample preservation temperatures (i.e. $\leq 6^{\circ}\text{C}$ but not frozen).

Salinity	G, wax seal	200
Silica	P (PTFE) or quartz	—
Sludge digester gas	G, gas bottle	200
Solids ⁹	P, G	—
Sulfate	P, G	100
Sulfide	P, G	100
Temperature	P, G	—
Turbidity	P, G	100

* For determinations not listed, use glass or plastic containers
† P = plastic (polyethylene or equivalent); G = glass; G(A) or
‡ g = grab; c = composite.
§ Refrigerate = storage at 4°C ± 2°C; in the dark; analyze
|| See citation¹⁰ for possible differences regarding containers
immediately.
If sample is chlorinated, see text for pretreatment.

9. U.S. ENVIRONMENTAL PROTECTION AGENCY. 1996
Table II.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the the QAP which describes sampling method and preservation requirements. Note the QAP did not specify appropriate sample preservation temperatures (i.e. $\leq 6^{\circ}\text{C}$ but not frozen).

Analytical Laboratories, Inc.
1804 N. Third Street
Harris, Idaho 83703
Phone (208) 542-5515
Date Report Printed: 2/24/2012 2:33:36
http://www.analyticallaboratories.com

Laboratory Analysis Report
Sample Number: 1204551

Attn: JACQUE NATION
CITY OF BLACKFOOT
2025 RIVINGTON RD.
BLACKFOOT, ID 83221

Collected By: J NATION
Submitted By: FEDEX
Source of Sample:
FEB 2012 NUTRIENTS EFFLUENT COMPOSITE

Time of Collection: 8:00
Date of Collection: 2/14/2012
Date Received: 2/15/2012
Report Date: 2/24/2012

Field Temp: Temp Read in Lab: 4.5 °C
PWS#: PWS Name:

RCVD W/CLUSTORY SEALS INTACT/PRE-PRESERVED EXCEPT O P04

Test Requested	MCL	Analysis Result	Units	MDL	Method	Date Completed	Analyst
Ammonia Direct (as N)	0.42	0.04	mg/L	0.04	EPA 350.1	2/22/2012	SS
Nitrate + Nitrite (as N)	19.9	0.02	mg/L	0.02	EPA 353.2	2/21/2012	SS
Nitrogen, Total Kjeldahl (TKN)	2.69	0.10	mg/L	0.10	EPA 353.2	2/21/2012	JK
Ortho Phosphate (as P)	<0.05	0.05	mg/L	0.05	EPA 365.1	2/15/2012	SS
Total Phosphate (as P)	0.33	0.05	mg/L	0.05	EPA 365.4	2/21/2012	JK

Sandy Koch
Thank you for choosing Analytical Laboratories for your testing needs.
If you have any questions about this report, or any future analytical results, please contact your client manager.
Sandy Koch

MCL = Maximum Contamination Level
MDL = Method Minimum Detection Limit
J.N. = Unregulated

Photograph by David Domingo (EPA) on March 14, 2012 looking at the certificate of analyses for effluent samples collected on February 14, 2012. Note the MDLs and sample preservation temperature of 4.5°C.

CHAIN OF CUSTODY RECORD ANALYTICAL LABS, INC.

CLIENT INFORMATION
 Project Name: Pink
 Company: City of Blackfoot
 Address: 200 West 1st St
 Phone: 208-338-1234 Fax: 208-338-1234
 E-mail Address: info@cityofblackfoot.com

PROJECT INFORMATION
 Project Number: 1000
 Purchase Order Number: 1000
 Required Due Date: 03/15/12
 E-mail Address: info@cityofblackfoot.com

TESTS REQUESTED
 (Grid with handwritten notes: Y = 1.5, X = 1.5, Y = 1.5, X = 1.5)

RECEIVED BY SIGNATURE
 Received by: [Signature] Date: 2/15/12 Time: 9:40
 Received by: [Signature] Date: 2/15/12 Time: 9:40
 Received by: [Signature] Date: 2/15/12 Time: 9:40
 Received by: [Signature] Date: 2/15/12 Time: 9:40

ANALYTICAL LABORATORIES
 Date: 2/15/12 Time: 9:40
 Condition: Good

SAMPLE RECEIPT
 Total # of Containers: 1
 Chain of Custody Seal: V / N / NA
 Intact: Y / N / NA Temperature Received: 4.5°C
 Condition: Good

Photograph by David Domingo (EPA) on March 14, 2012 looking at the chain of custody form for samples collected on February 14, 2012. Note the sample preservation temperature of 4.5°C and receipt date/time of 2/15/12 at 9:40am.

Special Instructions:
See B Feb 2012 to B Mar 14 Feb 2012

ANALYTICAL LABORATORIES
 Date: 2/15/12 Time: 9:40
 Condition: Good

SAMPLE RECEIPT
 Total # of Containers: 1
 Chain of Custody Seal: V / N / NA
 Intact: Y / N / NA Temperature Received: 4.5°C
 Condition: Good

Photograph by David Domingo (EPA) on March 14, 2012 looking at the chain of custody form for samples collected on February 14, 2012. Note the sample preservation temperature of 4.5°C and receipt date/time of 2/15/12 at 9:40am.

STANDARD OPERATING PROCEDURE (SOP) FOR *E. coli*

Reference: Standard Methods for the Examination of Water and
Wastewater, 20th edition

9221 F

Also Basic Laboratory by Environmental Training Consultants

Chapter 8

Prepared by: Jacque Nation Date 11/12/04
Lab Tech

Reviewed by: _____ Date: _____

Approved by: _____ Date: _____

Fecal Coliform & *E. coli*

A. Purpose

The City of Blackfoot Wastewater Treatment Plant is required to perform 5 Fecal Coliform tests per week on the effluent. The maximum count is 200 per hundred mls sample average per week. Anything over this is a violation of permit and must be reported within 24 hours. The City of Blackfoot Wastewater Treatment Plant also is required by permit to perform 2 *E. coli* tests per week on the effluent. Any count over 406 per hundred mls or monthly average over 126 per hundred mls sample is a violation and must be reported within 24 hours. This is the standard for receiving water quality passed by law May 2000 by the state of Idaho.

B. Summary of Method

Seventeen tubes of EC MUG are prepared. Ten mls effluent is aseptically introduced in five tubes, 1 ml effluent is aseptically introduced into 5 tubes, and 1 ml of 10% dilution is aseptically introduced into five tubes. The remaining tubes are for a blank, and 2-1 ml primary clarifier effluent or influent is introduced into the other for a positive. The tubes are incubated in a water bath at 44.5° C for 24 hours. Count is determined by MPN Index found on 9-52 of Standard Methods, 20th edition. A copy is kept in the bench sheet book. The first number represents the number of positive tubes in 10 mls, the second the number of positive tubes in 1 ml, and the third number represents the number of positives in the 1 ml 10% dilution tubes. Gas production observed in the invert is positive for fecal coliform. Glow under long wave UV light is positive for *E. coli*.

C. Health and Safety Warnings

Wash hands before and after test to prevent bacterial contamination.
Never pipette any sample or reagent by mouth. Use a pipetting device.

D. Cautions

Since all *E. coli* by definition are fecal coliforms, any tube that glows should also have gas. However, if the broth is heated too long in sterilization, there are some bacteria that may glow, but not produce gas. Also, sometimes gas production is missed because bubbles in the invert are minute. Care must be taken to examine the inverts closely and carefully for bubbles of any size.

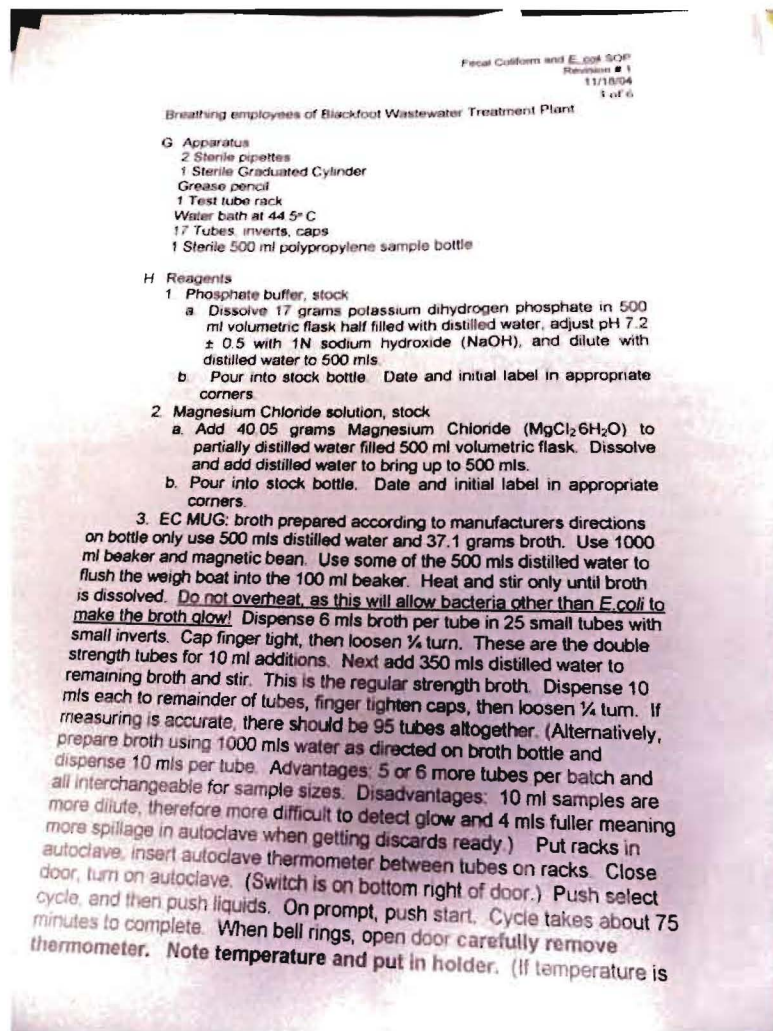
E. Interferences

Swab bench with isopropyl alcohol to prevent contamination from outside sources. Let dry before using.

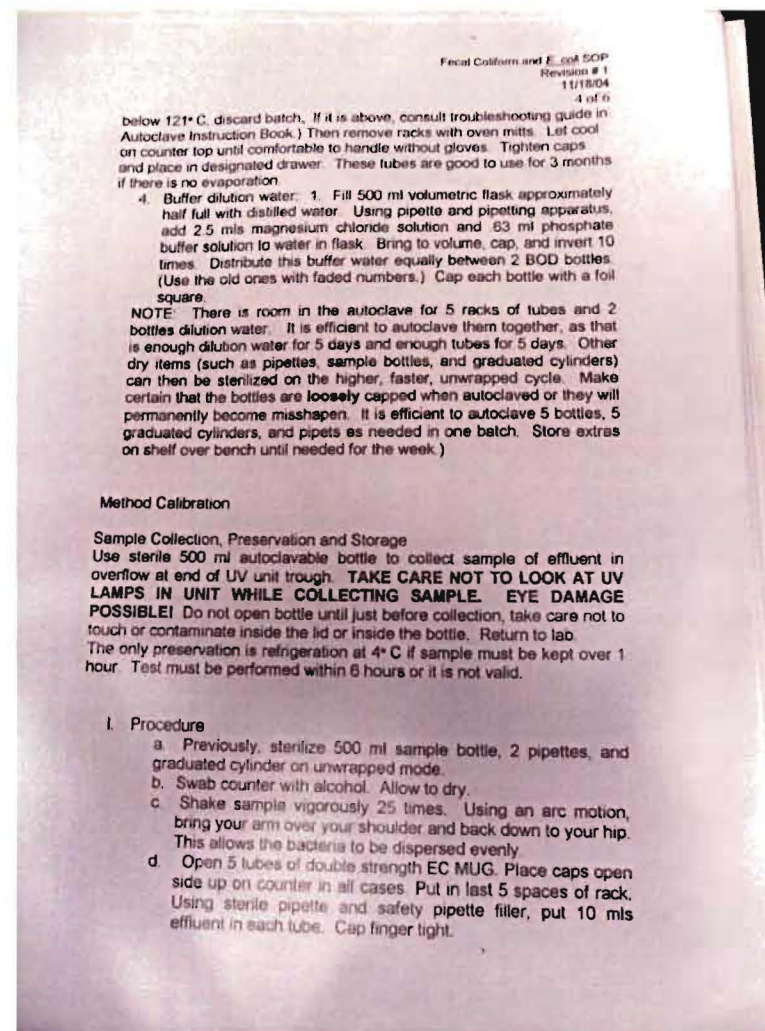
F. Personnel Qualifications

Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for *E. coli* in the QAP. The SOP describes sampling method and preservation requirements.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for *E. coli* in the QAP. The SOP describes sampling method and preservation requirements.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for E. coli in the QAP. The SOP describes sampling method and preservation requirements.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for E. coli in the QAP. The SOP describes sampling method and preservation requirements.

- e. Open 5 tubes regular strength broth. Put 1 ml effluent in each tube. Put in rack next to 10 ml samples.
- f. Put 10 mls effluent into sterile graduated cylinder. Add sterile buffer water to cylinder up to 100 ml mark. Remove pipette and sample from bench.
- g. Open 5 tubes regular strength broth. Using another sterile pipette, put 1 ml of diluted effluent into broth. Cap finger tight and place in rack next to 1 ml samples.
- h. Open last 2 tubes. In one place .2-1 ml Primary Clarifier influent or positive sample of previous test.
- i. Place rack with tubes in water bath at 44.5° C. Incubate for 22 to 26 hours.

Read out

- a. Put on UV face shield. Plug in and turn on ultraviolet light to long wave. Hold the blank and positive tubes under the light. The blank should appear translucent and glow faintly if at all; the positive should glow bright blue-white and appear opaque. Mark 0 for no glow and + for glow under the *E. coli* column on Fecal Coliform bench sheet.
- b. Using the blank and positive tubes for reference, observe each tube under the UV light and determine if it is positive. Some may appear opaque, but not glow like the positive. This is considered a negative and should be so reported on bench sheet. Turn off and unplug UV lamp.
- c. Examine tubes for gas production, shown by air gap or bubbles in the inverted tube. Mark 0 for no production and + for any gas at all for fecal coliform.
- d. Store used tubes in sample fridge until they can be autoclaved for safe disposal.

j. Data Analysis and Calculations

Use the MPN chart on page 9-52 of Standard Methods, 20th edition.

Example:

10 ml tubes had 4 positive
1 ml tubes had 1 positive
1 ml (1 ml at 10% dilution) tubes had 0 positive

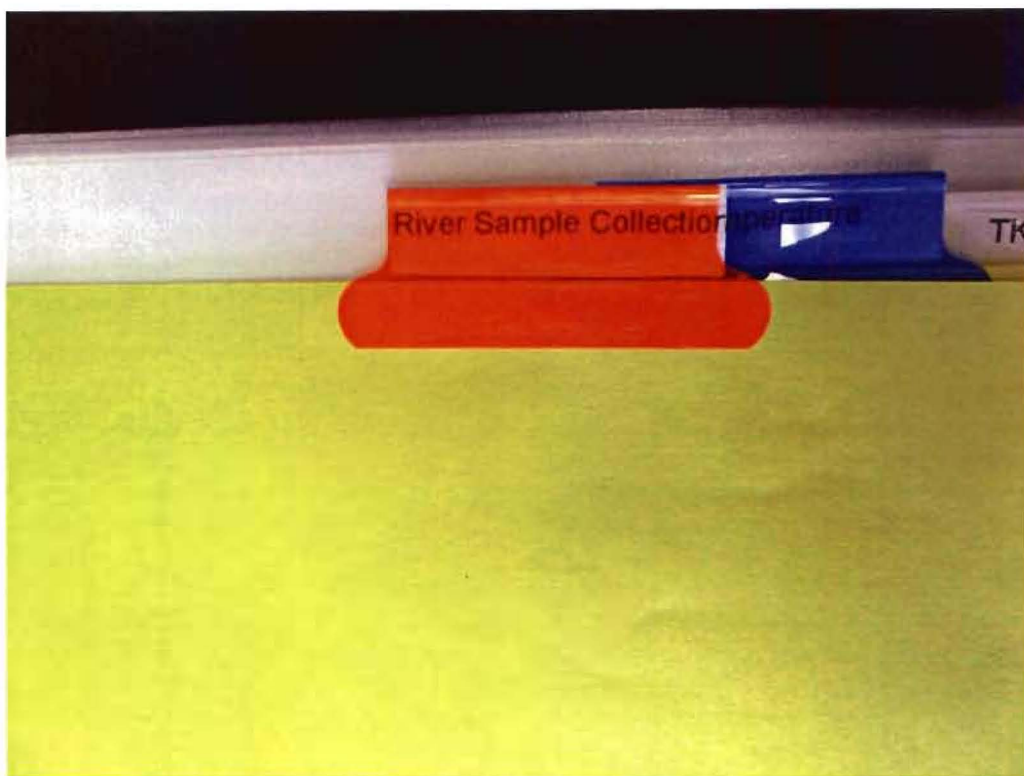
Find 4-1-0 on chart. MPN Index number is 17. Report as 17 MPN. Use chart for both Fecal Coliform and *E. coli*.

Discards:

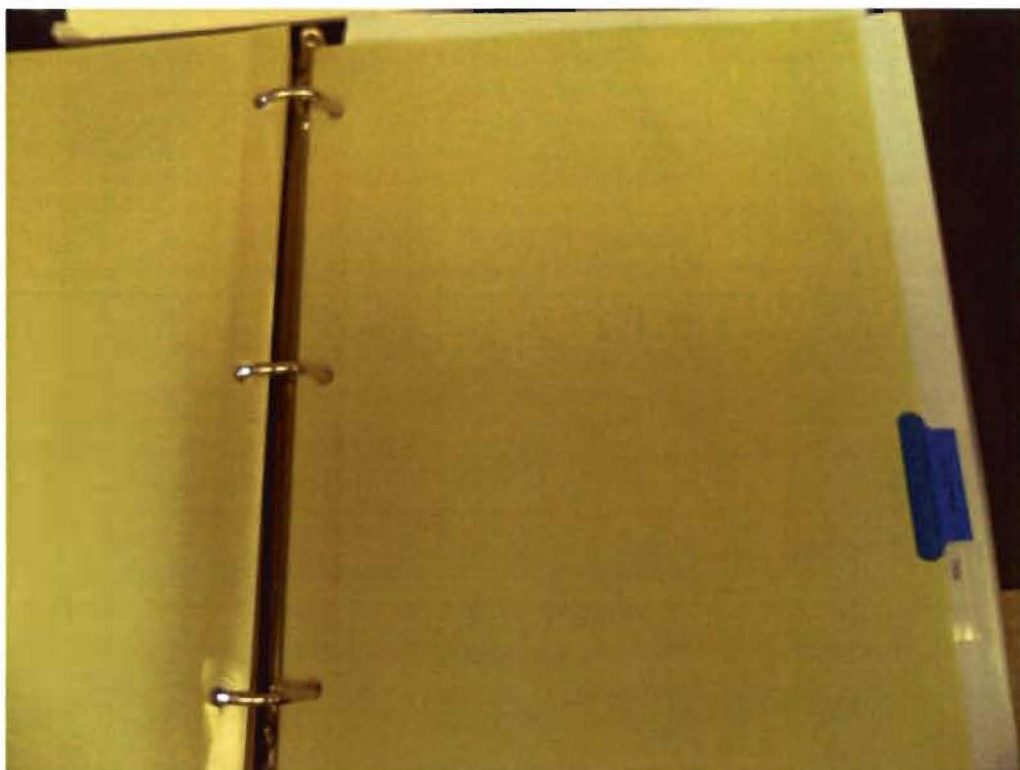
When there are 5 or 6 racks of used tubes, loosen caps ¼ turn and put in autoclave. Put in thermometer to ensure proper temperature is reached. Select packs cycle as it will maintain 121 degrees Celsius but provide 30 minutes of heat time ensuring a good kill. (At this point, we don't worry about ruining the broth by overheating.) When the autoclave beeps, open door and push start button to vent. When cool, empty contents of tubes down sink, and fill all tubes with tap water. Brush tubes, rinse 10 times with tap water and 3 times with distilled water. Invert in racks to dry, store in third drawer under countertop with water bath.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for *E. coli* in the QAP. The SOP describes sampling method and preservation requirements.

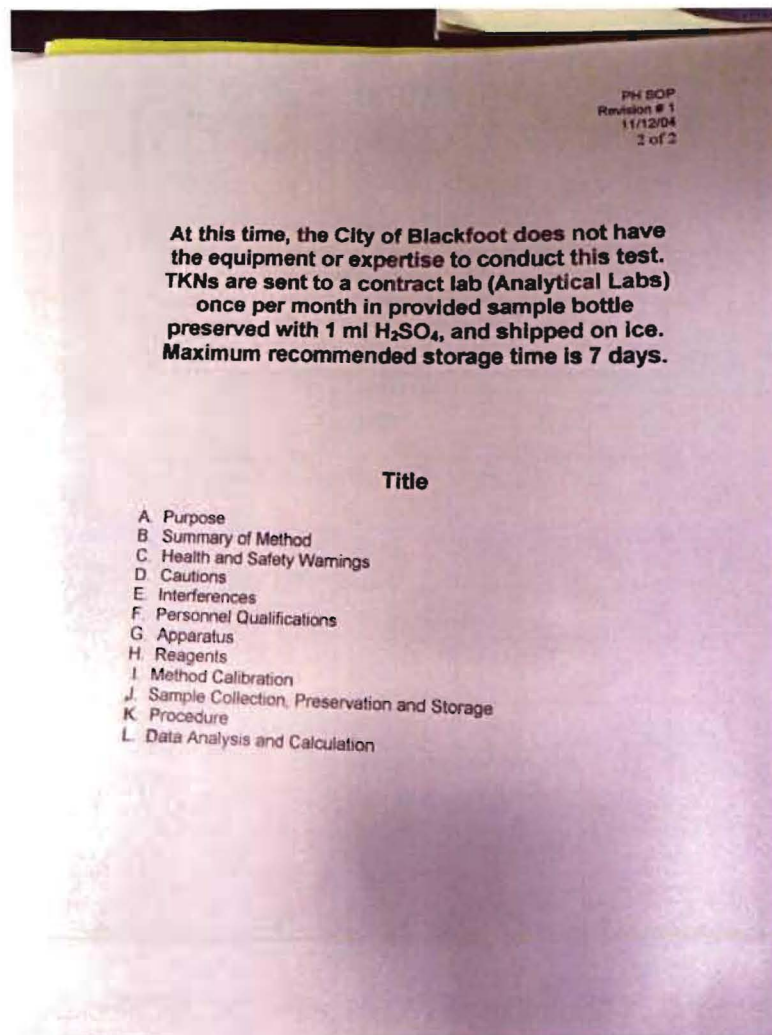
Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for *E. coli* in the QAP. The SOP describes sampling method and preservation requirements.



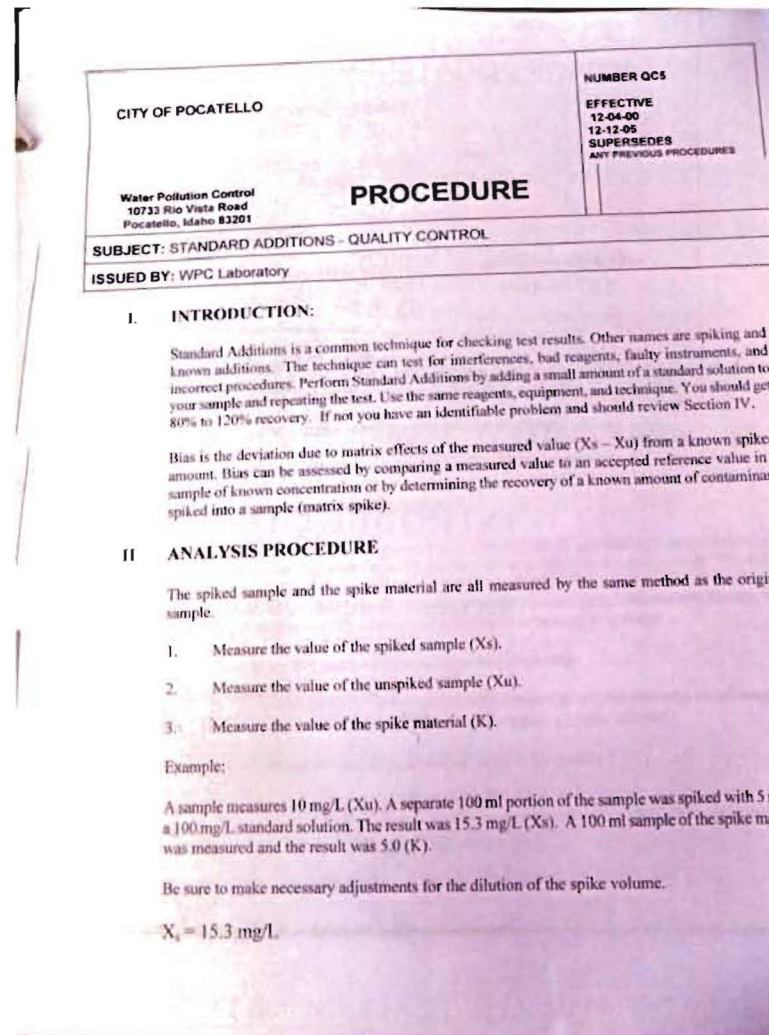
Photograph by David Domingo (EPA) on March 14, 2012 looking at the section of the QAP for River Sample Collection. Note there are no standard operating procedures for this sample collection.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the section of the QAP for River Sample Collection. Note there are no standard operating procedures for this sample collection.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the SOP for total kjeldahl nitrogen (TKN) in the QAP. The SOP describes sampling method and preservation requirements but does not include procedures to verify pH < 2 as specified in EPA approved methods.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the quality control section in the QAP. Note this section is a copy from the City of Pocatello, ID's QAP and has not been revised to reflect the City of Blackfoot, ID's permit and Facility.

PRO

ISSUED BY: WPC Laboratory

Standard Additions is a common technique for known additions. The technique can be used to correct for incorrect procedures. Perform Standard Additions on your sample and repeating the test. Use a recovery of 80% to 120% recovery. If not you have a problem.

Bias is the deviation due to matrix amount. Bias can be assessed by comparing a sample of known concentration or

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SUPERSEDES
Any previous procedures

I. General:

Contamination effects due to an improper method of cleaning of glassware can result in laboratory errors from sensitive analytical methods. The method of cleaning should be adapted to both the substances that are to be removed, and the determination to be performed. Some substances may only require the use of a detergent while other more difficult to remove substances may require cleaning solutions, nitric acid, sulfuric acid etc. In all cases it is good practice to rinse a vessel with tap water as soon as possible after use. Material allowed to dry on glassware is much more difficult to remove.

II. Glassware cleaning procedures-consult the method for complete details.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the glassware cleaning procedures section in the QAP. Note this section is a copy from the City of Pocatello, ID's QAP and has not been revised to reflect the City of Blackfoot, ID's permit and Facility.

Analytical Laboratories, Inc.
 1804 N. 31st Street
 Boise, Idaho 83703
 Phone (208) 342-5515
 Date Report Printed: 3/25/2011 4:21:05
<http://www.analyticallaboratories.com>

Laboratory Analysis Report
 Sample Number: 1106544

Attn: JACQUE NATION
 CITY OF BLACKFOOT
 2025 RIVERTON RD
 BLACKFOOT, ID 83221

Collected By:
 Submitted By: FEDEX
 Source of Sample:
 SPRING 2011 METALS EFFLUENT

Time of Collection:
 Date of Collection: 3/7/2011
 Date Received: 3/11/2011
 Report Date: 3/24/2011

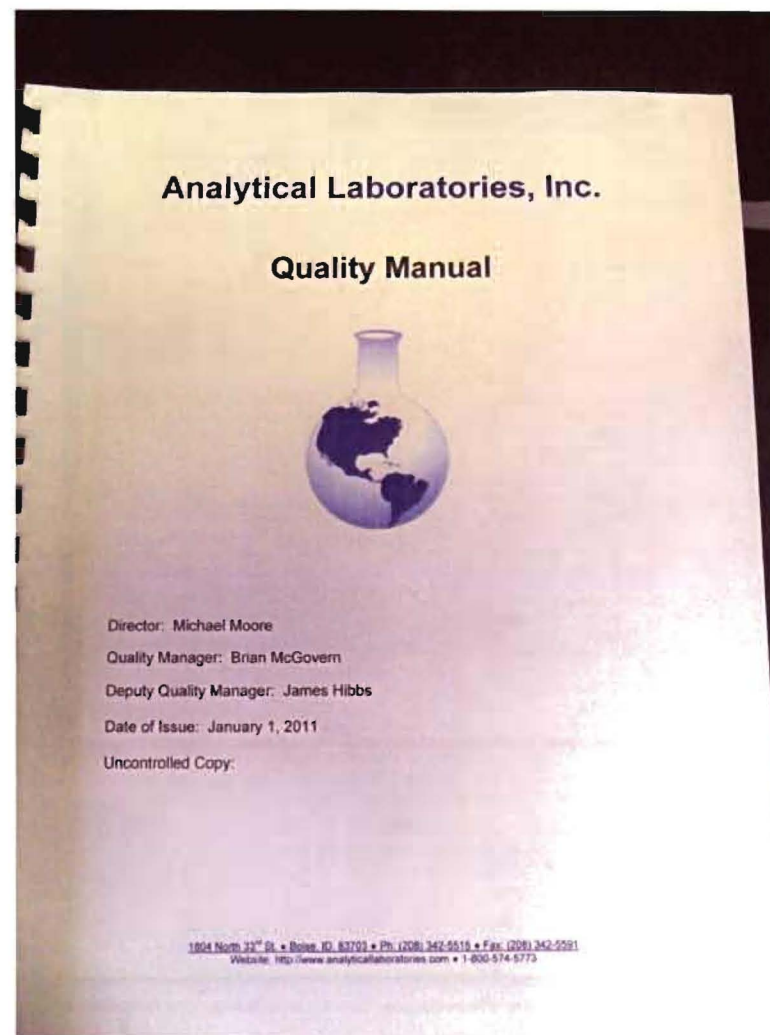
Field Temp: Temp Read in Lab
 PWS#:
 PWS Name:

RCVD W/ CUSTODY SEALS INTACT PRE-PRESERVED

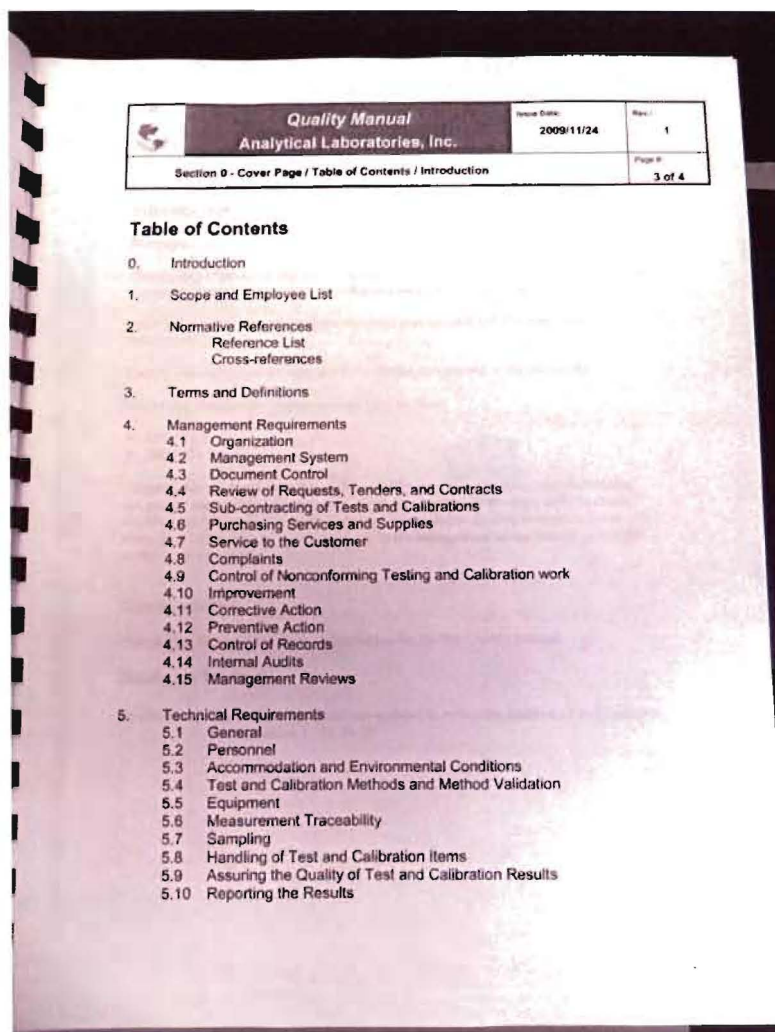
Test Requested	MCL	Analysis Result	Units	MDL	Method	Date Completed	Analyst
arsenic Low	<2		ug/L	2	EPA 200.8	3/18/2011	JH
cadmium Low	<0.5		ug/L	0.5	EPA 200.8	3/18/2011	JH
chromium Low	<2		ug/L	2	EPA 200.8	3/18/2011	JH
copper, Cu	2		ug/L	1	EPA 200.7	3/18/2011	KC
lead Low	0.8		ug/L	0.7	EPA 200.8	3/18/2011	JH
thiam, Li	30		ug/L	10	AA	3/23/2011	JH
mercury, Hg	<0.2		ug/L	0.2	EPA 245.1	3/15/2011	JMS
zinc Digestion					EPA 200.9-11	3/11/2011	JMS
glycidic acid, Me	<5		ug/L	5	EPA 200.7	3/18/2011	KC
nickel, Ni	<5		ug/L	5	EPA 200.7	3/18/2011	KC
tin, Sn	30.8		mg/L	0.5	EPA 200.7	3/16/2011	KC
chromium Low	<5		ug/L	5	EPA 200.8	3/18/2011	JH
lead Low	<0.5		ug/L	0.5	EPA 200.8	3/18/2011	JH
zinc, Zn	43		ug/L	5	EPA 200.7	3/18/2011	KC
lead, Total	<0.005		mg/L	0.005	EPA 335.4	3/15/2011	JK

[Signature]

Photograph by David Domingo (EPA) on March 14, 2012 looking at the certificate of analyses for the quarterly effluent metals samples collected in March 2011. Note the MDLs on the certificate.



Photograph by David Domingo (EPA) on March 14, 2012 looking at a copy of the QAP for the City's contract laboratory, Analytical Laboratories, Inc. in Boise, ID.



Photograph by David Domingo (EPA) on March 14, 2012 looking at a copy of the QAP for the City's contract laboratory, Analytical Laboratories, Inc. in Boise, ID.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the incubator used for BOD analysis.

N2 000116

March 2012

	pH Meter		BOD Meter		Sample Fridge		Oven		Furnace		Air Incubator		Fecal Bath		Reagent Fridge		BOD Incubator	
	Record	Initial	Record	Initial	Record	Initial	Record	Initial	Record	Initial	Record	Initial	Record	Initial	Record	Initial	Record	Initial
1	97%	PL	6481	JL	1.5	JL	107	JL	240	JL	35.0	JL	445	JL	1.5	JL	20.0	JL
2	100%	PL															18.8	JL
3	99%	PL															17.3	JL
4	100%	PL															20.0	JL
5	100%	PL	648	JL	1.5	JL	107	JL	240	JL	35.0	JL	445	JL	1.5	JL	20.0	JL
6	100%	PL	648	JL	2.0	JL	107	JL	240	JL	35.0	JL	445	JL	1.5	JL	20.0	JL
7	99%	PL	654	JL	1.0	JL	105	JL	240	JL	35.0	JL	447	JL	1.5	JL	20.0	JL
8	99%	PL	662	JL	2.5	JL	107	JL	240	JL	35.0	JL	447	JL	1.5	JL	20.0	JL
9	98%	PL			2.5	JL	107	JL	240	JL	35.0	JL	445	JL	1.5	JL	20.0	JL
10	100%	PL															20.0	JL
11	99%	PL															20.0	JL
12	99%	PL	648	JL	2.0	JL	106	JL	240	JL	35.5	JL	445	JL	1.5	JL	20.0	JL
13	97%	PL	643	JL	2.0	JL	106	JL	240	JL	35.5	JL	446	JL	1.5	JL	20.0	JL
14	99%	PL	649	JL	2.0	JL	101	JL	240	JL	35.0	JL	446	JL	1.5	JL	20.0	JL
15																		
16																		
17																		
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22																		
23																		
24																		
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29																		
30																		
31																		

Photograph by David Domingo (EPA) on March 14, 2012 looking at the daily onsite laboratory benchsheet for March 2012 for BOD and fecal coliform analyses.

Internal Samples Chain of Custody

Sample						Received By		Date		Time	Comments
Date	Sample	Time	Yes	No	Temp	Sampled By					
2-21-2012	EFF	8:14	✓		2.0°	NC	JL	JL	21-Feb-2012	8:14am	
2-21-2012	Inf	8:20	✓		2.0°	NC	JL	JL	21-Feb-2012	8:20am	
2-22-2012	EFF	8:00	✓		3.1°	NC	JL	JL	22-Feb-2012	8:00am	
2-22-2012	Inf	8:10	✓		2.8°	NC	JL	JL	22-Feb-2012	8:10am	
2-23-2012	EFF	8:00	✓		2.1°	NC	JL	JL	23-Feb-2012	8:00am	
2-23-2012	Inf	8:10	✓		2.1°	NC	JL	JL	23-Feb-2012	8:10am	
2-29-2012	EFF	7:48	✓		1.9°	NC	JL	JL	27-Feb-2012	7:48am	not set
2-29-2012	Inf	7:48	✓		3.0°	NC	JL	JL	28-Feb-2012	7:48am	
2-29-2012	EFF	7:50	✓		2.9°	NC	JL	JL	28-Feb-2012	7:50am	
2-29-2012	Inf	7:52	✓		3.0°	NC	JL	JL	28-Feb-2012	7:52am	
2-29-2012	EFF	8:00	✓		4.0°	NC	JL	JL	29-Feb-2012	8:00am	Fridge bracket tripped 9°C
3-1-2012	Inf	8:50	✓		3.5°	NC	JL	JL	1-Mar-2012	7:50am	
3-4-2012	EFF	8:00	✓		4.0°	NC	JL	JL	1-Mar-2012	8:00am	
3-5-2012	Inf	7:25	✓		3.8°	NC	JL	JL	5-Mar-2012	7:25am	
3-5-2012	EFF	7:30	✓		2.9°	NC	JL	JL	5-Mar-2012	7:30am	
3-6-2012	Inf	7:32	✓		2.1°	NC	JL	JL	6-Mar-2012	7:32am	
3-6-2012	EFF	7:46	✓		0.9°	NC	JL	JL	6-Mar-2012	7:46am	
3-7-2012	Inf	7:51	✓		2.6°	NC	JL	JL	7-Mar-2012	7:51am	
3-7-2012	EFF	8:28	✓		3.8°	NC	JL	JL	7-Mar-2012	8:28am	
3-8-2012	Inf	7:50	✓		4.8°	NC	JL	JL	8-Mar-2012	7:50am	
3-8-2012	EFF	8:20	✓		3.7°	NC	JL	JL	8-Mar-2012	8:20am	
3-12-2012	Inf	8:00	✓		3.8°	NC	JL	JL	12-Mar-2012	8:00am	
3-12-2012	EFF	8:11	✓		3.1°	NC	JL	JL	12-Mar-2012	8:11am	
3-13-2012	Inf	8:10	✓		2.0°	NC	JL	JL	13-Mar-2012	8:10am	
3-13-2012	EFF	8:00	✓		2.0°	NC	JL	JL	13-Mar-2012	8:00am	
3-14-2012	Inf	8:10	✓		2.3°	NC	JL	JL	14-Mar-2012	8:10am	
3-14-2012	EFF	8:23	✓		2.0°	NC	JL	JL	14-Mar-2012	8:23am	

Photograph by David Domingo (EPA) on March 14, 2012 looking at the internal samples chain of custody for the onsite laboratory.

BOD BENCH SHEET

N^o 003466

Date Collected 13 Mar 2012 Flow, mgd int eff
 Date In 14 Mar 2012 Temp In C° Flow Factor int eff
 Date Out 14 Mar 2012 Temp Out C° BOD Dil H₂O Bot Tech d

Sample	Bottle #	ml Sample	ml Seed	DO	DO ₂ discard # <1	(DO-DO ₂) discard # <2	BOD ₅ (DO-DO ₂) 300 (ml (DF decimal))	Avg BOD
<u>Blank</u>	<u>1</u>			<u>7.8</u>				
<u>SEW</u>	<u>6</u>	<u>100</u>	<u>.5 ml</u>	<u>7.9</u>				
<u>MSW</u>	<u>7</u>	<u>200</u>	<u>1</u>	<u>8.1</u>				
<u>738</u>	<u>9</u>	<u>300</u>	<u>1</u>	<u>8.6</u>				
<u>A</u>	<u>11</u>	<u>1</u>						
<u>14712</u>	<u>12</u>	<u>3</u>						
	<u>13</u>	<u>5</u>						
<u>Twp</u>	<u>14</u>	<u>1</u>						
<u>14714</u>	<u>15</u>	<u>3</u>						
	<u>16</u>	<u>5</u>						
<u>Sewer</u>	<u>17</u>	<u>1</u>	<u>.5 ml</u>					
<u>14711</u>	<u>18</u>	<u>3</u>						
<u>14714</u>	<u>19</u>	<u>5</u>						

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Photograph by David Domingo (EPA) on March 14, 2012 looking at the BOD laboratory benchsheet for samples collected on March 13, 2012.

TOTAL SUSPENDED & VOLATILE SUSPENDED SOLIDS

CITY OF BLACKFOOT

N^o 003994

SAMPLE DATE: 12 Mar 2012 TECH:
 TEST DATE: 13 Mar 2012 FLOW:

Drawn in: 4-25-12 Drawn out: Furnace in: Furnace out:

SAMPLE SOURCE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
WT SAMPLE USED														
WT DRY SOLIDS & FILTER	<u>882</u>	<u>63</u>	<u>65</u>	<u>62</u>	<u>68.5</u>	<u>62.5</u>	<u>67</u>	<u>60</u>	<u>76.5</u>	<u>75</u>	<u>80</u>	<u>40</u>	<u>46</u>	
WT FILTER	<u>1502</u>	<u>1514</u>	<u>1506</u>	<u>1500</u>	<u>1531</u>	<u>1602</u>	<u>1611</u>	<u>1609</u>	<u>1606</u>	<u>1605</u>	<u>1601</u>	<u>1520</u>	<u>1519</u>	<u>1511</u>
WT DRY SOLIDS SUSPENDED														
WT DRY SOLIDS & FILTER														
WT VOLATILE														
VOLATILE SOLIDS														
WT VOLATILE SOL														
% VOL SOLIDS														

ER pH: ER Temp: ER D.O.: Int pH: ER Turbidity: Int Temp:

Initial Initial Initial Initial Initial Initial Initial

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Photograph by David Domingo (EPA) on March 14, 2012 looking at the TSS laboratory benchsheet for samples collected on March 12, 2012.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the water bath for fecal and E. coli analyses.

NS 000420

Bacteriological Data			
Date	Source	Set by	Read by
3-14-12	Effluent	ST	ST
Time	9:55		
E coli			
Blank	0	0	0
Positive	+	+	+
10 ml	0000	0000	0000
1.0 ml	0000	0000	0000
0.1 ml	0000	0000	0000
Count	0-0-0	0-0-0	0-0-0

Bacteriological Data			
Date	Source	Set by	Read by
3-14-12	Effluent	ST	ST
Time	10:00		
E coli			
Blank	0	0	0
Positive	+	+	+
10 ml	0000	0000	0000
1.0 ml	0000	0000	0000
0.1 ml	0000	0000	0000
Count	0-0-0	0-0-0	0-0-0

Bacteriological Data			
Date	Source	Set by	Read by
3-14-12	Effluent	ST	ST
Time	10:00		
E coli			
Blank	0	0	0
Positive	+	+	+
10 ml	0000	0000	0000
1.0 ml	0000	0000	0000
0.1 ml	0000	0000	0000
Count	0-0-0	0-0-0	0-0-0

Bacteriological Data			
Date	Source	Set by	Read by
3-14-12	Effluent	ST	ST
Time	10:00		
E coli			
Blank	0	0	0
Positive	+	+	+
10 ml	0000	0000	0000
1.0 ml	0000	0000	0000
0.1 ml	0000	0000	0000
Count	0-0-0	0-0-0	0-0-0

Bacteriological Data			
Date	Source	Set by	Read by
3-14-12	Effluent	ST	ST
Time	10:00		
E coli			
Blank	0	0	0
Positive	+	+	+
10 ml	0000	0000	0000
1.0 ml	0000	0000	0000
0.1 ml	0000	0000	0000
Count	0-0-0	0-0-0	0-0-0

Photograph by David Domingo (EPA) on March 14, 2012 looking at the laboratory benchsheet for E. coli and fecal coliform analyses in March 2012.

Bacteriological Data
Date: 2-15-12 Source: Effluent Read by: JH
Time: 1:30 Set by: JH

	E. coli	Fecal Coliform
Blank	0	0
Positive	+	+
10 ml	1000+0	1000+0
1.0 ml	00000	00000
0.1 ml	00000	00000
Count	1-0-0	1-0-0

Bacteriological Data
Date: 2-15-12 Source: Effluent Read by: JH
Time: 1:30 Set by: JH

	E. coli	Fecal Coliform
Blank	0	0
Positive	+	+
10 ml	1000+0	1000+0
1.0 ml	00000	00000
0.1 ml	00000	00000
Count	2-0-0	2-0-0

Bacteriological Data
Date: 2-15-12 Source: Effluent Read by: JH
Time: 1:30 Set by: JH

	E. coli	Fecal Coliform
Blank	0	0
Positive	+	+
10 ml	1000+0	1000+0
1.0 ml	00000	00000
0.1 ml	00000	00000
Count	3-0-0	3-0-0

Bacteriological Data
Date: 2-15-12 Source: Effluent Read by: JH
Time: 1:30 Set by: JH

	E. coli	Fecal Coliform
Blank	0	0
Positive	+	+
10 ml	1000+0	1000+0
1.0 ml	00000	00000
0.1 ml	00000	00000
Count	4-1-1	5-1-1

Bacteriological Data
Date: 2-15-12 Source: Effluent Read by: JH
Time: 1:30 Set by: JH

	E. coli	Fecal Coliform
Blank	0	0
Positive	+	+
10 ml	1000+0	1000+0
1.0 ml	00000	00000
0.1 ml	00000	00000
Count	4-5-2	5-5-2

Photograph by David Domingo (EPA) on March 14, 2012 looking at the laboratory benchsheet for E. coli and fecal coliform analyses in February 2012. According to Mr. Moffat and Ms. Nation, the high fecal coliform result documented on February 15, 2012 was due to an operator (initials "NC") reading the test results who was not familiar with the microbiological methods.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the incubator used for E. coli and fecal coliform analyses.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the autoclave in the onsite laboratory.

Results - Method 1002.0

During EPA Method 1002.0, Survival and Reproduction test using *Ceriodaphnia dubia*, survival and reproduction values from specific dilutions of collected wastewater are measured and compared to values obtained from control individuals set up in 20% diluted mineral water.

Statistical analyses of survival data indicated no significant difference existed between controls and dilutions tried.

For reproduction, all dilutions did not show a significant reduction from controls. All dilutions exceeded the minimum reproduction rate of 15 organisms per adult in 7 days or three broods. Statistical analyses of reproduction indicated that all dilutions were not statistically different from controls.

Endpoints Determined - EPA Method 1002.0

		<u>NOEC</u>	<u>LOEC</u>
<u><i>Ceriodaphnia dubia</i></u>	Survival	100%	>100%
	Reproduction	100%	>100%

The mortality was less than twenty percent (<20%) in controls. Reproduction was consistent, and averages exceeded 15 young per surviving female in three or less broods; both required test parameters. Test was declared valid.

Results - Method 1000.0 - AUGUST 2000

During EPA Method 1000.0, larval Survival and Growth test using the fathead minnow *Pimephales promelas*, survival and growth from specific dilutions of collected wastewater were measured and compared to values obtained from controls prepared in 20% diluted mineral water.

Statistical analyses of survival data indicated no significant difference existed between control and dilutions tried.

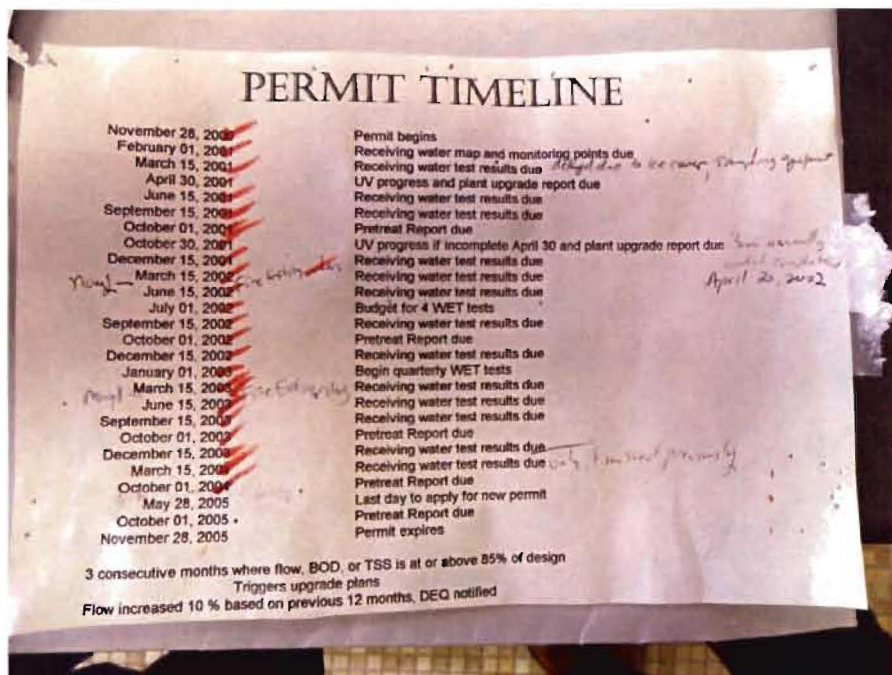
Growth, as a measure of total dry weight, appeared reasonably consistent among all concentrations tried. Statistical analyses of growth data indicated that all concentrations tried were not significantly different from control.

Endpoints Determined - Method 1000.0 - AUGUST 2000

		<u>NOEC</u>	<u>LOEC</u>
<u><i>Pimephales promelas</i></u>	Survival	100%	>100%
	Growth	100%	>100%

Survival of controls exceeded eighty-percent (80%) and net dry weight of surviving individuals exceeded 0.25 mg/individuals; both are required conditions. Test was declared valid.

Photograph by David Domingo (EPA) on March 14, 2012 looking at the whole effluent toxicity (WET) results in August 2000.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the permit timeline developed by the City which identifies the dates and deliverables required in the Permit.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the disposal area for septage haulers. The septage is dumped at the Facility just upstream of the influent flow meter and headworks building.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the influent flow meter prior to the headworks building.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the headworks building at the Facility.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the influent composite sampler in the headworks building. According to Mr. Moffat, the City was collecting time-proportioned samples (i.e. ~ 100-150 ml every ten minutes).



Photograph by David Domingo (EPA) on March 14, 2012 looking at the control panel in the headwork building and the influent flow meter (upper right of photo).



Photograph by David Domingo (EPA) on March 14, 2012 looking at the influent flow meter in the headworks building.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the Sigma 900 composite influent sampler. The City was collecting time-proportioned samples (i.e. ~ 100-150 ml every ten minutes).



Photograph by David Domingo (EPA) on March 14, 2012 looking at the screening unit within the headworks building. Wastewater flows from the screening unit to the grit chamber and then to the primary clarifier.



Photograph by David Domingo (EPA) on March 14, 2012 looking at wastewater flowing from the headworks to the primary clarifier.



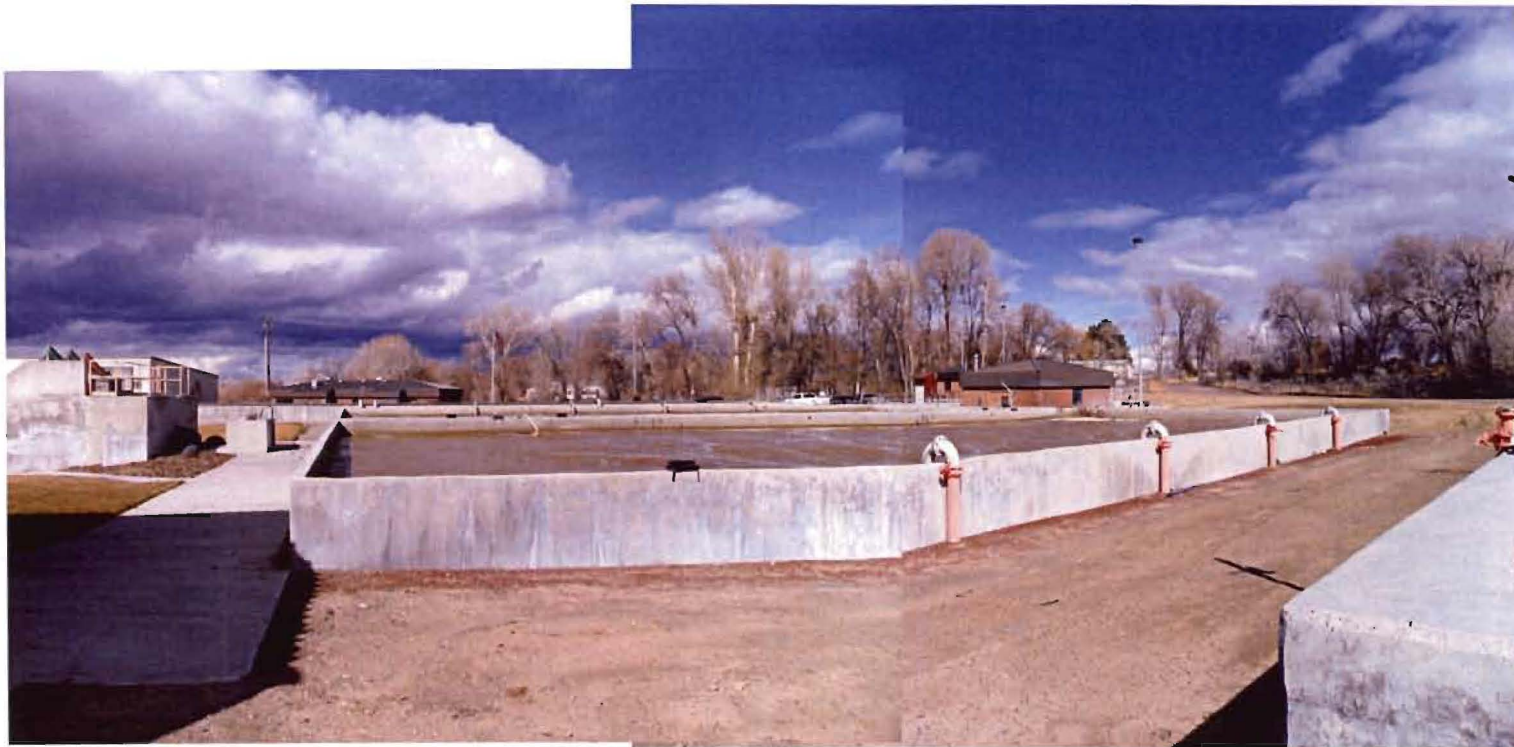
Photograph by David Domingo (EPA) on March 14, 2012 looking at the primary clarifier at the Facility. Wastewater flows from the grit chamber to the primary clarifier and then to the plant pump station.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the plant pump station. Wastewater flows from the primary clarifier to the plant pump station and then to the bioselector basin.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the bioselector basin. According to Mr. Moffat, phosphorus is removed in this basin. Wastewater flows from the bioselector basin to the aeration basins.



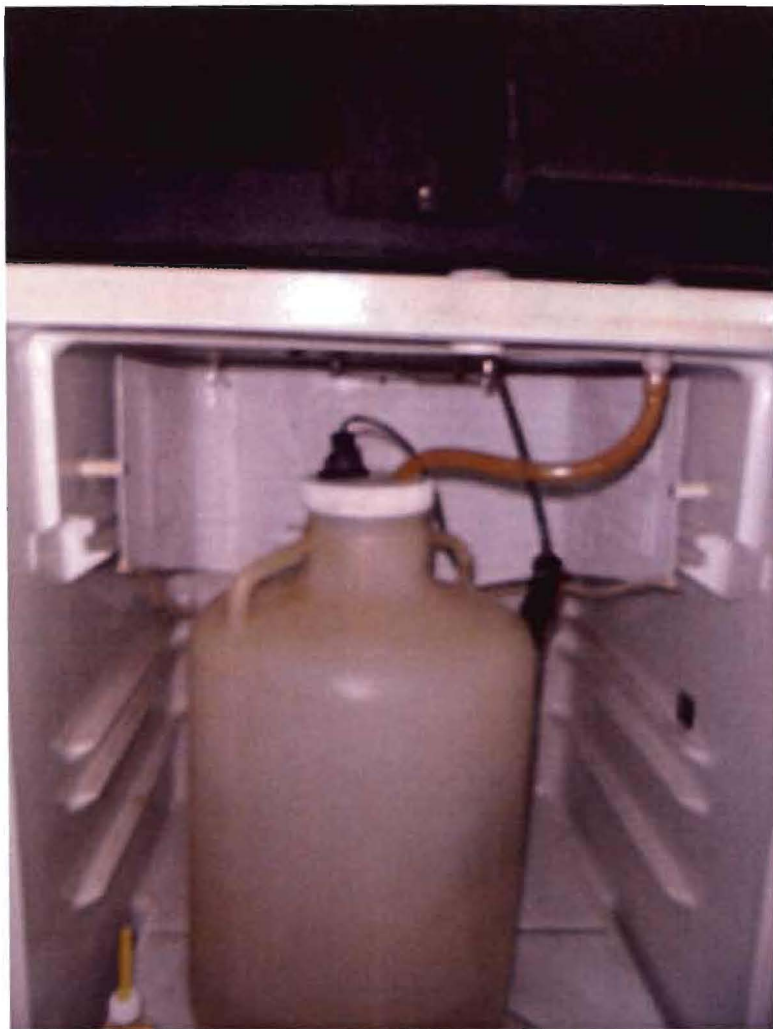
Photograph by David Domingo (EPA) on March 14, 2012 looking at the aeration basins. Wastewater flows from the aeration basins to the secondary clarifiers and then to the UV disinfection.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the secondary clarifiers. Wastewater flows from the secondary clarifiers to the UV disinfection and then discharge to the Snake River through outfall 001.



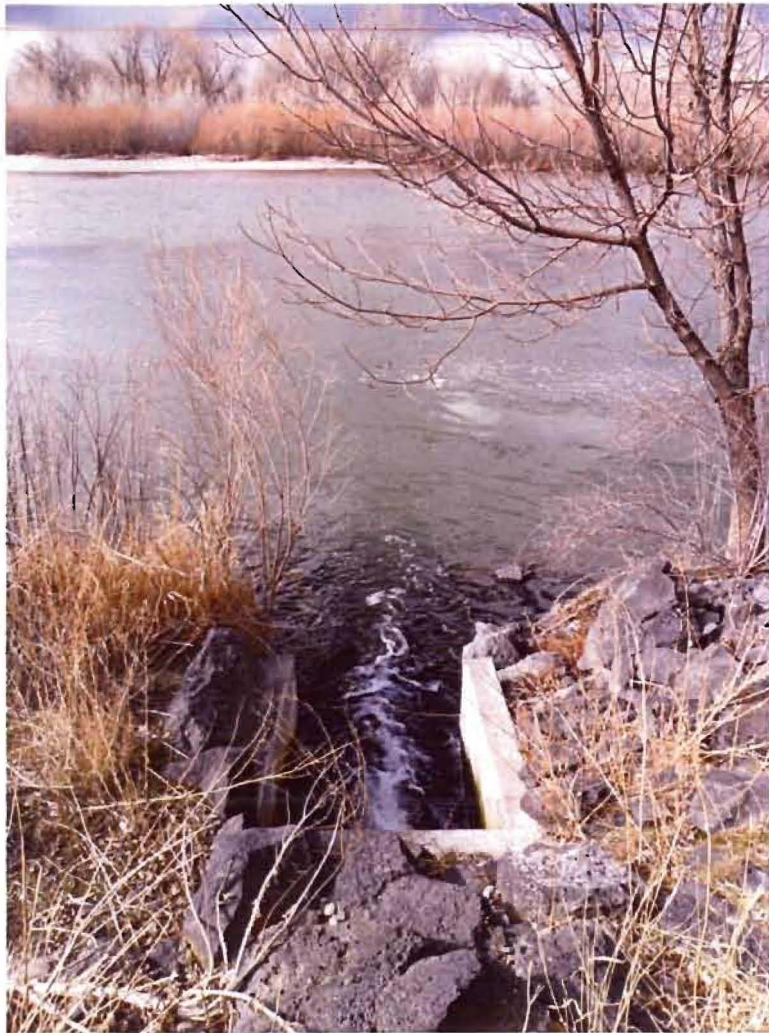
Photograph by David Domingo (EPA) on March 14, 2012 looking at the UV disinfection. Wastewater flows from the UV disinfection to the Snake River through outfall 001.



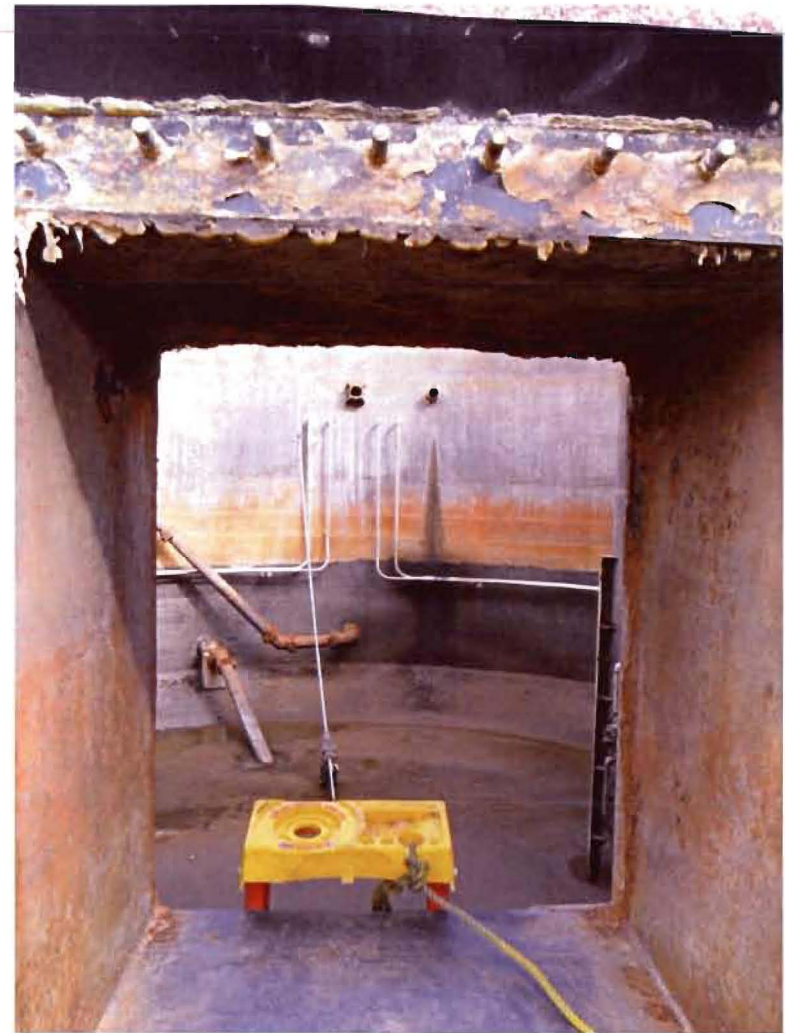
Photograph by David Domingo (EPA) on March 14, 2012 looking at the effluent composite sampler in the UV disinfection building. According to Mr. Moffat, the City was collecting time-proportioned samples (i.e. ~ 100-150 ml every ten minutes).



Photograph by David Domingo (EPA) on March 14, 2012 looking at the Sigma 900 composite effluent sampler. The City was collecting time-proportioned samples (i.e. ~ 100-150 ml every ten minutes).



Photograph by David Domingo (EPA) on March 14, 2012 looking at outfall 001. Wastewater flows from the UV disinfection system to the Snake River through outfall 001.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the one of the sludge digestors currently under repair.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the centrifuge unit used to dewater sludge.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the polymer addition unit used to facilitate the dewatering of sludge.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the polymer addition unit used to facilitate the dewatering of sludge.



Photograph by David Domingo (EPA) on March 14, 2012 looking at the dewatered sludge storage building.

ATTACHMENT C

Documents provided during inspection

**City of Blackfoot, Idaho
Wastewater Treatment Facility**

(March 14, 2012 Inspection)

Feb 2012 DMR

3/14/12

DMR Copy of Record

Permit

Permit #: ID0020044
Major: ☒

Permittee: BLACKFOOT, CITY OF
Permittee Address: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221

Facility: BLACKFOOT, CITY OF
Facility Location: 2025 RIVERTON ROAD
BLACKFOOT WWTP
BLACKFOOT, ID
83221

Permitted Feature: 001
External Outfall

Discharge: 001-A
SNAKE RIVER AT RM
776.8

Report Dates & Status

Monitoring Period: From 02/01/12 to 02/29/12

DMR Due Date: 03/10/12

Status: NetDMR Validated

Considerations for Form Completion

W = WEEKLY AVERAGE. CHLORINE LIMITS APPLY UNTIL UV SYSTEM IS INSTALLED AND COMPLETED. FACILITY MUST NOTIFY EPA AND DEQ WHEN INSTALLATION IS COMPLETE AND WHEN EXPANSION TO 5.1 MGD IS COMPLETED.

Principal Executive Officer

First Name: Mike
Last Name: Virtue

Title: Mayor
Telephone: 208-785-8616

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Season		Param. #	NODI	Quantity or Loading				Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
		Qualifier	Value 1			Qualifier	Value 2	Units	Qualifier	Value 1	Qualifier	Value 2	Qualifier	Value 3	Units			
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample							=	11.84	=	13.1	04 - deg C	01/30 - Monthly	GR - GRAB
					Permit Req.											04 - deg C	01/30 - Monthly	GR - GRAB
					Value NODI													
00070	Turbidity	1 - Effluent Gross	0	--	Sample							=	3.78	=	3.78	43 - NTU	01/30 - Monthly	GR - GRAB
					Permit Req.											43 - NTU	01/30 - Monthly	GR - GRAB
					Value NODI													
00300	Oxygen, dissolved (DO)	1 - Effluent Gross	0	--	Sample					=	3.8	=	4.88		19 - mg/L	02/DW - Twice Every Week	GR - GRAB	
					Permit Req.										19 - mg/L	02/DW - Twice Every Week	GR - GRAB	
					Value NODI													
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	=	103.35			26 - lb/d	=	3.15	=	6.51		19 - mg/L	02/DW - Twice Every Week	24 - COMP24
					<=													

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Qualifier 1	Quantity or Loading Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Permit Req.	750.6 MO AVG			26 - lb/d	Req Mon DAILY MN						19 - mg/L		02/DW - Twice Every Week	24 - Discharge COMP24
					Value NODI														
					Sample =	9127.14			26 - lb/d	=	253	=	556.33	=	1410	19 - mg/L		02/DW - Twice Every Week	24 - Discharge COMP24
					Permit Req.	Req Mon MO AVG			26 - lb/d		Req Mon DAILY MN		Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	02/DW - Twice Every Week	24 - Discharge COMP24
00310	BOD, 5-day, 20 deg. C	W - See Comments	0	--	Value NODI														
					Sample =	169.91			26 - lb/d			=	9.95			19 - mg/L		02/DW - Twice Every Week	24 - Discharge COMP24
					Permit Req.	<=	1126 WKLY AVG		26 - lb/d			<=	45 WKLY AVG			19 - mg/L	0	02/DW - Twice Every Week	24 - Discharge COMP24
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample				=	7				=	7.6	12 - SU		05/DW - 5 Days Every Week	GR - GRAB
					Permit Req.				>=	6 DAILY MN				<=	9 DAILY MX	12 - SU	0	05/DW - 5 Days Every Week	GR - GRAB
					Value NODI														
					Sample														
00410	Alkalinity, total (as CaCO3)	1 - Effluent Gross	0	--	Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/YR - Semiannual	24 - COMP24
					Value NODI								9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period				
					Sample =	140.9			26 - lb/d			=	9.23			19 - mg/L		02/DW - Twice Every Week	24 - Discharge COMP24
					Permit Req.	<=	750.6 MO AVG		26 - lb/d			<=	30 MO AVG			19 - mg/L	0	02/DW - Twice Every Week	24 - Discharge COMP24
00530	Solids, total suspended	1 - Effluent Gross	0	--	Value NODI														
					Sample =	4098.43			26 - lb/d	=	172.29	=	269.04			19 - mg/L	0	02/DW - Twice Every Week	24 - Discharge COMP24
					Permit Req.	Req Mon MO AVG			26 - lb/d		Req Mon DAILY MN		Req Mon MO AVG			19 - mg/L		02/DW - Twice Every Week	24 - Discharge COMP24
					Value NODI														

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					Units	# of Ex.	Frequency of Analysis	Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3			
00530	Solids, total suspended	W - See Comments	0	--	Value NODI													
					Sample	=		225.06	26 - lb/d	=			12.99		19 - mg/L		02/DW - Twice Every Week	24 - Discharge Week
					Permit Req.	<=		1126 WKLY AVG	26 - lb/d	<=			45 WKLY AVG		19 - mg/L		02/DW - Twice Every Week	24 - Discharge Week
00610	Nitrogen, ammonia total (as N)	1 - Effluent Gross	0	--	Value NODI													
					Sample	=		6.46	26 - lb/d	=			0.42		19 - mg/L		01/30 - Monthly	24 - Monthly
					Permit Req.			Req Mon MO AVG	26 - lb/d				Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - Monthly
00625	Nitrogen, Kjeldahl, total (as N)	1 - Effluent Gross	0	--	Value NODI													
					Sample					=			2.69		19 - mg/L		01/30 - Monthly	24 - Monthly
					Permit Req.								Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - Monthly
00630	Nitrite plus nitrate total 1 det. (as N)	1 - Effluent Gross	0	--	Value NODI													
					Sample					=			19.9		19 - mg/L		01/30 - Monthly	24 - Monthly
					Permit Req.								Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - Monthly
00665	Phosphorus, total (as P)	1 - Effluent Gross	0	--	Value NODI													
					Sample					=			0.33		19 - mg/L		01/30 - Monthly	24 - Monthly
					Permit Req.								Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - Monthly
00900	Hardness, total (as CaCO3)	1 - Effluent Gross	0	--	Value NODI													
					Sample								Req Mon MO AVG		19 - mg/L		02/YR - Semiannual	24 - Monthly
					Permit Req.								9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period			
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Value NODI													
					Sample								Req Mon MO AVG		28 - ug/L		02/YR - Semiannual	24 - Monthly
					Permit Req.								9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period			
X 31615	Fecal coliform, MPN, EC med, 44.5 C	1 - Effluent Gross	0	--	Value NODI													
					Sample					=			330.86		13 - #/100mL		05/DW - 5 Days Every Week	GR - GRAB
					Permit Req.					<=			200 WKLY GEO		13 - #/100mL		05/DW - 5 Days Every Week	GR - GRAB

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units					
31633	E. coli, thermotol, MF, MTEC	1 - Effluent Gross	0	--	Value NODI																
					Sample																
					Permit Req.																
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1.84			03 - MGD											
					Permit Req.		Req Mon MO AVG		03 - MGD												
					Value NODI																
					Sample																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Permit Req.		12.5 MO AVG	<=	25 DAILY MX	26 - lb/d											
					Value NODI		9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period												
					Sample																
					Permit Req.																
70507	Phosphorous, In total orthophosphate	1 - Effluent Gross	0	--	Value NODI																
					Sample																
					Permit Req.																
					Value NODI																
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample																
					Permit Req.																
					Value NODI																
					Sample																
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Permit Req.																
					Value NODI																
					Sample																
					Permit Req.																

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
31615	Fecal coliform, MPN, EC med, 44.5 C	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	<input checked="" type="checkbox"/>

Comments

Attachments*No attachments.***Report Last Saved By****BLACKFOOT, CITY OF**

User: rexm@cityofblackfoot.org

Name: Rex Moffat

E-Mail: rexm@cityofblackfoot.org

Date/Time:

2012-03-09 07:17 (Time Zone: -08:00)

The First day of the month is on

Wednesday

Sec Clor.

2

BOD mg/l % Removal

98.83

TSS mg/l % Rem

96.57

February-12

INFLUENT

EFFLUENT

Date	Flow	Temp	pH	[BOD]	BOD #	[TSS]	TSS #	Flow	Temp	[BOD]	BOD #	% rem	[TSS]	TSS #	% rem	D.O.	pH	E. coli	Fecal	Tot Am
1	1.7710	11.9	8.2	253	3737	193	2858	1.7710	10.8	8	113	96.98	10.5	156	94.55	4.9	7.1	2.0	2.0	
2	3.0000	12.8	8.6					3.0000	10.5							3.9	7.1			
3	2.0550	12.5	7.9					2.0550	11.2							5.5	7.0			
4	2.4170	11.6	7.6					2.4170	11.0							5.3	7.0	1.8	1.8	
5	2.4650	11.7	7.9					2.4650	10.8							5.9	7.1	4.5	4.5	
6	1.5570	12.7	8.4			352	4568	1.5570	12.7		85.6		7.1	92	97.98	5.9	7.1	6.8	6.8	
7	1.4670	12.5	8.7	273	3340	266	3252	1.4670	12.5	7	80	97.60	10.3	126	96.13	4.7	7.2	17.0	31.0	
8	1.9870	12.8	8.5	510	8452	236	3912	1.9870	11.8	3	52	99.38	5.6	93	97.61	5.2	7.0	2.0	2.0	
9	1.6610	14.1	7.7					1.6610	11.6		49.71					4.2	7.2			
10	1.4550	13.8	7.3					1.4550	12.9							4.6	7.0			
11	1.5420	12.3	7.5					1.5420	13.1							4.4	7.2	4.5	4.5	
12	1.3860	11.7	7.8			219	2531	1.3860	12.7				7.4	85	96.62	5.1	7.3	1.8	1.8	
13	1.7640	13.0	8.0			337	4952	1.7640	12.5				9.1	134	97.30	4.9	7.3	2.0	2.0	
14	1.9430	14.1	8.1	448	7260	213	3451	1.9430	11.9	7	107	98.53	8.8	143	95.85	4.1	7.3	21.0	46.0	
15	1.7400	13.5	8.4	412	5979	190	2764	1.7400	12.6	5	73	98.77	8.0	117	95.77	4.1	7.2	48.0	1600.0	
16	2.1930	13.1	7.2					2.1930	12.1							4.3	7.2			
17	1.8420	14.3	7.0					1.8420	12.7							4.1	7.0			
18	1.8050	11.8	7.5					1.8050	12.9							3.8	7.3	17.0	17.0	
19	1.3800	11.9	7.6					1.3800	12.2							5.2	7.3	4.5	7.8	
20	2.1350	13.2	7.6			393	6991	2.1350	11.3				9.3	165	97.64	5.2	7.4	2.0	2.0	
21	1.8460	14.1	7.4	1410	21708	280	4306	1.8460	11.2	11	172	99.21	16.0	246	94.29	4.5	7.3	4.5	4.5	
22	2.3070	13.1	8.1	303	5830	209	4026	2.3070	12.3	9	167	97.13	13.7	264	93.44	4.8	7.4	7.8	11.0	
23	1.5020	13.3	8.5					1.5020	12.0							4.6	7.3			
24	1.2850	13.7	7.4					1.2850	12.1							4.7	7.3			
25	1.3560	12.4	7.1					1.3560	11.7							4.5	7.4	1.8	1.8	
26	2.2850	11.6	7.7			172	3283	2.2850	10.6							5.2	7.2	2.0	2.0	
27	1.4190	12.7	7.7			369	4372	1.4190	10.8				8.0	95	97.83	6.7	7.3	2.0	2.0	
28	2.4330	13.4	7.2	1080	21915	343	6964	2.4330	11.0	6	115	99.47	8.4	171	97.55	6.0	7.3	17.0	6.8	
29	1.4800	12.4	8.2	318	3925	263	3245	1.4800	11.8	4	50	98.73	6.9	85	97.37	5.2	7.6	2.0	2.0	

TOT	53.4780	372.00	226.82	5007.00	82144.24	4035.60	61476.46	53.4780	343.30	#####	930.1177	885.7994	129.26	1972.58	1349.94	141.5	209.4			
MAX	3.0000	14.30	8.72	1410.00	21914.52	392.65	6991.43	3.0000	13.10	#####	172.4312	99.4748	15.96	264.15	97.98	6.7	7.6	48.0		
MIN	1.2850	11.60	7.00	253.00	3340.09	172.29	2531.33	1.2850	10.50	#####	49.9900	96.9763	5.63	85.45	93.44	3.8	7.0			
AVG	1.8441	12.8	7.8	556.3	9127.1	269.0	4098.4	1.8441	11.8	6.5	103.3	98.4	9.2	140.9	96.4	4.9	7.2	4.6	5.8	
Total Ammonia	0.42	6.4594	Turbidity	3.8	NTU			Effluent	Week	Week 2	Week 3	Week 4				Fecal	Week 1	Week 2	Week 3	Week 4
Nitrate/Nitrite	19.9	Notes:						BOD mg/L	5.8	5.8	10.0	4.9				Geomean	4.4	330.9	8.5	2.9
TKN	2.69							BOD #	81.8	89.9	169.9	82.5								
Total Phosphate	0.33							TSS mg/l	8.4	8.3	13.0	7.8								
Ortho Phos.	0.05							TSS #	116.8	119.7	225.1	117.1								

100% 98.86%

96.56%

16.4 error

Discharge Monthly Report

Feb-12

Parameter		Quantity or Loading			Quantity or Concentration				No. EX	Frequency of analysis	Sample Type
		Value	Value	Units	Value	Value	Value	Units			
Temperature, water deg. Cent	Sample Measurement	---	---	---	---	11.84	13.10	deg C			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	deg C		Monthly	Grab
Turbidity	Sample Measurement	---	---	---	---	3.78	3.78	NTU			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	NTU		Monthly	Grab
Oxygen, disolved (DO)	Sample Measurement	---	---	---	3.8	4.87931034	---	mg/l			
Effluent Gross	Permit Requirement	---	---	---	Req. Mon. DAILY MN	Req. Mon. MO AVG	---	mg/l		twice every discharge week	Grab
BOD, 5-day, 20 deg. C	Sample Measurement	103.35	---	lb/d	3.15	6.51135802	---	mg/l			
Effluent Gross	Permit Requirement	750.6 MO AVG	---	lb/d	Req. Mon. DAILY MN	30 MO AVG	---	mg/l		twice every discharge week	COMP24
BOD, 5-day, 20 deg C	Sample Measurement	9127.14	---	lb/d	253.00	556.33	1410.00	mg/l			
Raw Sewage Influent	Permit Requirement	Req. Mon. MO AVG	---	lb/d	Req. Mon. DAILY MN	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		twice every discharge week	COMP24
BOD, 5-day, 20 deg. C	Sample Measurement	169.911237	---	lb/d	---	9.95	---	mg/l			
Effluent Weekly AVG	Permit Requirement	1126 WKLY AVG	---	lb/d	---	45 WKLY AVG	---	mg/l		Twice every discharge week	COMP24
pH	Sample Measurement	---	---	---	7	---	7.6	SU			
Effluent Gross	Permit Requirement	---	---	---	6 DAILY MN	---	9 DAILY MX	SU		5 days every week	Grab

Discharge Monthly Report

Feb-12

Parameter		Quantity or Loading			Quantity or Concentration				No. EX	Frequency of analysis	Sample Type
		Value	Value	Units	Value	Value	Value	Units			
Alkalinity, total (as CaCO3)	Sample Measurement	---	---	---	---			mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Semiannual	COMP24
Solids, total suspended	Sample Measurement	140.898818	---	lb/d	---	9.23303204	---	mg/l			
Effluent Gross	Permit Requirement	750.6 MO AVG	---	lb/d	---	30 MO AVG	---	mg/l		Twice every discharge week	COMP24
Solids, total suspended	Sample Measurement	4098.43058	---	lb/d	172.289157	269.040117	---	mg/l			
Raw Sewage Influent	Permit Requirement	Req. Mon. MO AVG	---	lb/d	Req. Mon. DAILY MN	Req. Mon. MO AVG	---	mg/l		Twice every discharge week	COMP24
Solids, total suspended	Sample Measurement	225.061552	---	lb/d	---	12.9913665	---	mg/l			
Effluent Weekly AVG	Permit Requirement	1126 WKLY AVG	---	lb/d	---	45 MO AVG	---	mg/l		Twice every discharge week	COMP24
Nitrogen, Ammonia total (as N)	Sample Measurement	6.45940477	6.45940477	lb/d	---	0.42	0.42	mg/l			
Effluent Gross	Permit Requirement	Req. Mon. MO AVG	Req. Mon. Daily MX	lb/d	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Monthly	COMP24
Nitrogen, Kjeldahl, total (as N)	Sample Measurement	---	---	---	---	2.69	2.69	mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Monthly	COMP24
Nitrite plus nitrate total 1 det. (as N)	Sample Measurement	---	---	---	---	19.9	19.9	mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Monthly	COMP24

Discharge Monthly Report

Feb-12

Parameter		Quantity or Loading			Quantity or Concentration				No. EX	Frequency of analysis	Sample Type
		Value	Value	Units	Value	Value	Value	Units			
Phosphate, total (as P)	Sample Measurement	---	---	---	---	0.33	0.33	mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Monthly	COMP24
Hardness, total (as CaCO3)	Sample Measurement	---	---	---	---			mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Semiannual	COMP24
Lead, total recoverable	Sample Measurement	---	---	---	---			ug/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/l		Semiannual	COMP24
Fecal coliform, MPN, EC med. 44.5 C	Sample Measurement	---	---	---	---	330.86	---	#/100 mL			
Effluent Gross	Permit Requirement	---	---	---	---	200 WKLY GEO	---	#/100 mL		5 days every week	Grab
E-coli, thermotol, MF, MTEC	Sample Measurement	---	---	---	---	4.5936361	48	#/100 mL			
Effluent Gross	Permit Requirement	---	---	---	---	126 MO GEO	406 DAILY MX	#/100 mL		5 days every week	Grab
Flow, in conduit or thru treatment plant	Sample Measurement	1.84406897	---	Mgal/d	---	---	---	---			
Effluent Gross	Permit Requirement	Req. Mon. MO AVG	---	Mgal/d	---	---	---	---		Continuous	RCORDR
Chlorine, total residual	Sample Measurement	NA	NA	NA	---	NA	NA	mg/l		NA	NA
Effluent Gross	Permit Requirement	12.5 MOAVG	25 DAILY MX	lb/d	---	9	1 DAILY MX	mg/l		Daily	Grab

48 is 71,600 result
Lead is weekly ave.

Discharge Monthly Report

Feb-12

Parameter		Quantity or Loading			Quantity or Concentration				No. EX	Frequency of analysis	Sample Type
		Value	Value	Units	Value	Value	Value	Units			
Phosphorous, in total orthophosphate	Sample Measurement	---	---	---	---	0.05	0.05	mg/l			
Effluent Gross	Permit Requirement	---	---	---	---	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/l		Monthly	COMP24
BOD, 5-day, percent removal	Sample Measurement	---	---	---	98.8295941	---	---	%			
Percent Removal	Permit Requirement	---	---	---	85 MN % RMV	---	---	%		Monthly	CALCTD
Solids, suspended percent removal	Sample Measurement	---	---	---	96.5681579	---	---	%			
Percent Removal	Permit Requirement	---	---	---	85 MN % RMV	---	---	%		Monthly	CALCTD

DMR Copy of Record

Permit

Permit #: ID0020044
Major: ☒

Permittee: BLACKFOOT, CITY OF
Permittee Address: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221

Facility: BLACKFOOT, CITY OF
Facility Location: 2025 RIVERTON ROAD
BLACKFOOT WWTP
BLACKFOOT, ID 83221

Permitted Feature: REC
External Outfall

Discharge: REC-1
RECEIVING WATER

Report Dates & Status

Monitoring Period: From 12/01/11 to 12/31/11

DMR Due Date: 01/10/12

Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Mike
Last Name: Virtue

Title: Mayor
Telephone: 208-785-8616

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading				Units	Quality or Concentration				Units	# of Ex.	Frequency of Analysis	Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2		Qualifier 1	Value 1	Qualifier 2	Value 2				
00070	Turbidity	5 - Upstream Monitoring	0	--	Sample Permit Req.					Req Mon MO AVG		Req Mon DAILY MX		43 - NTU		01/90 - Quarterly	GR - GRAB
					Value NODI					9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					
					Sample Permit Req.												
00300	Oxygen, dissolved (DO)	5 - Upstream Monitoring	0	--	Sample Permit Req.					Req Mon MINIMUM		Req Mon MO AVG		19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI					9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					
					Sample Permit Req.												
00310	BOD, 5-day, 20 deg. C	5 - Upstream Monitoring	0	--	Sample Permit Req.					Req Mon MO AVG		Req Mon DAILY MX		19 - mg/L		01/90 - Quarterly	CG - CMPGRB
					Value NODI					9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					
					Sample Permit Req.												
00400	pH	5 - Upstream Monitoring	0	--	Sample Permit Req.					Req Mon MINIMUM		Req Mon MAXIMUM		12 - SU		01/90 - Quarterly	GR - GRAB
					Value NODI					9 - Conditional		9 - Conditional					
					Sample Permit Req.												

file:///C:/Users/rexm/AppData/Local/Temp/Temp1_ID0020044_REC-1_12_31_2011_1_9_2012_1331562783633_6.zip/dmrSu... 3/14/2012

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading			Units	Quality or Concentration			Units	# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2		Value 2	Qualifier 1	Value 1					Qualifier 2
01040	Copper, dissolved (as Cu)	5 - Upstream Monitoring	0	--	Value NODI				9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period						
					Sample Permit Req.						Req Mon MO AVG	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	CG - CMPGRB	
					Value NODI						9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period				
					Sample Permit Req.						Req Mon MO AVG	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB	
01049	Lead, dissolved (as Pb)	5 - Upstream Monitoring	0	--	Value NODI				9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period						
					Sample Permit Req.						Req Mon MO AVG	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB	
					Value NODI						9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period				
					Sample Permit Req.						Req Mon MO AVG	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	CG - CMPGRB	
01090	Zinc, dissolved (as Zn)	5 - Upstream Monitoring	0	--	Value NODI				9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period						
					Sample Permit Req.						Req Mon MO AVG	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	CG - CMPGRB	
					Value NODI						9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period				
					Sample Permit Req.						Req Mon MO GEO	Req Mon DAILY MX	13 - #/100mL	01/90 - Quarterly	GR - GRAB	
31648	E. coli, MTEC-MF	5 - Upstream Monitoring	0	--	Value NODI				9 - Conditional Monitoring - Not Required This Period	9 - Conditional Monitoring - Not Required This Period						
					Sample Permit Req.						Req Mon MO MAXIMUM	9 - Conditional Monitoring - Not Required This Period				
					Value NODI											
					Sample Permit Req.											
50050	Flow, in conduit or thru treatment plant	5 - Upstream Monitoring	0	--	Value NODI				9 - Conditional Monitoring - Not Required This Period							
					Sample Permit Req.											
					Value NODI											
					Sample Permit Req.											
70507	Phosphorous, in total orthophosphate	5 - Upstream Monitoring	0	--	Value NODI											
					Sample Permit Req.											
					Value NODI											
					Sample Permit Req.											

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments**Attachments**

No attachments.

Report Last Saved By**BLACKFOOT, CITY OF**

User: rexm@cityofblackfoot.org

Date/Time: 2012-01-09 06:48 (Time Zone: -08:00)

Name: Rex Moffat

E-Mail: rexm@cityofblackfoot.org

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

3/14/12
Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
ADDRESS: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221-2466
FACILITY: BLACKFOOT, CITY OF
LOCATION: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221
ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044
PERMIT NUMBER

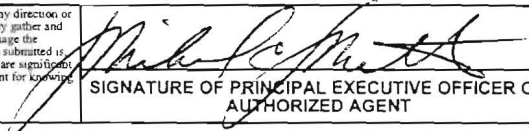
REC-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 83221-2466
MAJOR S
(SUBR 03)
RECEIVING WATER
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2011	TO	03/31/2011

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Turbidity	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00070 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	NTU		Quarterly	GRAB
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	*****	*****	*****	*****			*****			
00300 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. MO AVG	mg/L		Quarterly	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00310 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
pH	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00400 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Alkalinity, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****			*****			
00410 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MO AVG	mg/L		Quarterly	CMPGRB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00610 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mike Verne TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE
			228-785-8617	04/08/2011	
			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
ADDRESS: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221-2466
FACILITY: BLACKFOOT, CITY OF
LOCATION: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221
ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044
PERMIT NUMBER

REC-1
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 83221-2466

MAJOR \$
(SUBR 03)
RECEIVING WATER
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
03/01/2011	FROM	03/31/2011	TO

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N) 00625 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
Nitrite plus nitrate total 1 det. (as N) 00630 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
Phosphorus, total (as P) 00665 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Hardness, total (as CaCO3) 00900 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MO AVG	mg/L		Quarterly	CMPGRB
Copper, dissolved (as Cu) 01040 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	CMPGRB
Lead, dissolved (as Pb) 01049 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Zinc, dissolved (as Zn) 01090 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
MIKE VERTUS MAYOR		208-785-8617		04/08/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code
				MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
ADDRESS: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221-2466
FACILITY: BLACKFOOT, CITY OF
LOCATION: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221
ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044	REC-1
PERMIT NUMBER	DISCHARGE NUMBER

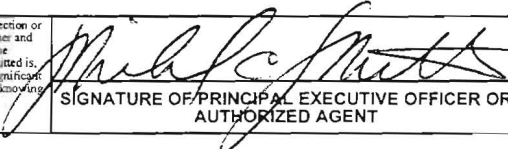
DMR Mailing ZIP CODE: 83221-2466

MAJOR \$
(SUBR 03)
RECEIVING WATER
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2011	TO	03/31/2011

No Discharge 

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
E. coli, MTEC-MF 31648 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO GEO	Req. Mon. DAILY MX	#/100mL		Quarterly	GRAB
Flow, in conduit or thru treatment plant 50050 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****			*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	Req. Mon. MAXIMUM	cfs	*****	*****	*****	*****		Daily	MEASRD
Phosphorous, in total orthophosphate 70507 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE	DATE
Mike Verlus Mayor TYPED OR PRINTED			1208-785-8617	04/08/2011
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
 ADDRESS: 2025 RIVERTSON ROAD
 BLACKFOOT, ID 83221-2466
 FACILITY: BLACKFOOT, CITY OF
 LOCATION: 2025 RIVERTSON ROAD
 BLACKFOOT, ID 83221

ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044	REC-1
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 09/01/2011	TO 09/30/2011

DMR Mailing ZIP CODE: 83221-2466

MAJOR \$

(SUBR 03)

RECEIVING WATER

External Outfall

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Turbidity	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00070 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	NTU		Quarterly	GRAB
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	*****	*****	*****			*****				
00300 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MO AVG	*****	mg/L		Quarterly	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00310 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
pH	SAMPLE MEASUREMENT	*****	*****	*****							
00400 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		Quarterly	GRAB
Alkalinity, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****			*****				
00410 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MO AVG	*****	mg/L		Quarterly	CMPGRB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00610 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Mike Virtue Mayor TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE 208 785-8616		DATE 10/5/11
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Mike Virtue		MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
ADDRESS: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221-2466
FACILITY: BLACKFOOT, CITY OF
LOCATION: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221

ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044	REC-1
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 83221-2466

MAJOR \$
(SUBR 03)
RECEIVING WATER
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM	09/01/2011	TO	09/30/2011

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00625 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00630 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00665 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00900 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MINIMUM	Req. Mon. MO AVG	mg/L		Quarterly	CMPGRB
Copper, dissolved (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01040 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	CMPGRB
Lead, dissolved (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01049 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Zinc, dissolved (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01090 5 0 Upstream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	ug/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>Mike Virtue Mayor</i> TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE
		<i>208 785 8616</i>		<i>10/5/11</i>
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Mike Virtue</i>		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: BLACKFOOT, CITY OF
ADDRESS: 2025 RIVERTSON ROAD
BLACKFOOT, ID 83221-2466
FACILITY: BLACKFOOT, CITY OF
LOCATION: 2025 RIVERTON ROAD
BLACKFOOT, ID 83221

ATTN: RON HARWELL, PUBLIC WORKS DIR

ID0020044	REC-1
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 83221-2466

MAJOR \$
(SUBR 03)
RECEIVING WATER
External Outfall

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM	09/01/2011	TO	09/30/2011

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
E. coli, MTEC-MF 31648 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO GEO	Req. Mon. DAILY MX	#/100mL		Quarterly	GRAB
Flow, in conduit or thru treatment plant 50050 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****			*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	Req. Mon. MAXIMUM	cfs	*****	*****	*****	*****		Daily	MEASRD
Phosphorous, in total orthophosphate 70507 5 0 Upstream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Quarterly	CMPGRB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>Mike Virtue</i> Mayor TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Mike Virtue</i>	TELEPHONE		DATE
			AREA Code	NUMBER	MM/DD/YYYY
				208 785 8616	10/6/11

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Design Criteria (uncorrected)

Year/Month	Flow, Avg	12 Month average	Design	85%
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Jan-08	1.6328	1.4336	5.1000	4.3350
Feb-08	1.5766	1.4082	5.1000	4.3350
Mar-08	1.3644	1.3782	5.1000	4.3350
Apr-08	1.4230	1.3565	5.1000	4.3350
May-08	1.4230	1.3350	5.1000	4.3350
Jun-08	1.4574	1.3148	5.1000	4.3350
Jul-08	1.5353	1.2990	5.1000	4.3350
Aug-08	1.4899	1.3463	5.1000	4.3350
Sep-08	1.5399	1.3983	5.1000	4.3350
Oct-08	1.5098	1.4472	5.1000	4.3350
Nov-08	1.4258	1.4928	5.1000	4.3350
Dec-08	1.4439	1.4852	5.1000	4.3350
Jan-09	1.4709	1.4717	5.1000	4.3350
Feb-09	1.6845	1.4807	5.1000	4.3350
Mar-09	1.6246	1.5023	5.1000	4.3350
Apr-09	1.4967	1.5085	5.1000	4.3350
May-09	1.3937	1.5060	5.1000	4.3350
Jun-09	1.4633	1.5065	5.1000	4.3350
Jul-09	1.3836	1.4939	5.1000	4.3350
Aug-09	1.3337	1.4809	5.1000	4.3350
Sep-09	2.6678	1.5749	5.1000	4.3350
Oct-09	2.6614	1.6708	5.1000	4.3350
Nov-09	2.8081	1.7860	5.1000	4.3350
Dec-09	3.4247	1.9511	5.1000	4.3350
Jan-10	3.1534	2.0913	5.1000	4.3350
Feb-10	2.6789	2.1742	5.1000	4.3350
Mar-10	2.7706	2.2697	5.1000	4.3350
Apr-10	2.2734	2.3344	5.1000	4.3350
May-10	1.4190	2.3365	5.1000	4.3350
Jun-10	1.4208	2.3330	5.1000	4.3350
Jul-10	1.4948	2.3422	5.1000	4.3350
Aug-10	1.5355	2.3590	5.1000	4.3350
Sep-10	1.5946	2.2696	5.1000	4.3350
Oct-10	1.4428	2.1681	5.1000	4.3350
Nov-10	1.4428	2.0543	5.1000	4.3350
Dec-10	1.4843	1.8926	5.1000	4.3350

Corrected Design Criteria

Month/Year	Flow, Avg	12 Month average	Design	85%	BOD Avg	12 Month average	Limit	85%	TSS Avg	12 Month average	Limit	85%
Jan-10	3.1534	2.0913	3.2000	2.7200	8650.1	8294.7	11900.0	10115.0	5561.4	3878.7	10365.0	8810.3
Feb-10	2.6789	2.1742	3.2000	2.7200	9884.7	8502.8	11900.0	10115.0	5276.8	4091.3	10365.0	8810.3
Mar-10	2.7706	2.2697	3.2000	2.7200	10797.8	8868.9	11900.0	10115.0	5656.6	4252.7	10365.0	8810.3
Apr-10	2.2734	2.3344	3.2000	2.7200	7774.0	9205.3	11900.0	10115.0	4086.3	4398.9	10365.0	8810.3
May-10	1.4190	2.3365	3.2000	2.7200	2936.8	8708.4	11900.0	10115.0	3213.9	4509.0	10365.0	8810.3
Jun-10	1.4208	2.3330	3.2000	2.7200	5772.8	8509.6	11900.0	10115.0	3307.7	4587.3	10365.0	8810.3
Jul-10	1.4948	2.3422	3.2000	2.7200	8586.1	8644.7	11900.0	10115.0	3174.5	4663.0	10365.0	8810.3
Aug-10	1.5355	2.3590	3.2000	2.7200	6902.5	8618.0	11900.0	10115.0	3116.9	4720.5	10365.0	8810.3
Sep-10	1.5946	2.2696	3.2000	2.7200	5874.4	8456.0	11900.0	10115.0	3602.2	4677.4	10365.0	8810.3
Oct-10	1.4428	2.1681	3.2000	2.7200	4102.0	8077.5	11900.0	10115.0	2489.6	4386.7	10365.0	8810.3
Nov-10	1.4730	2.0568	3.2000	2.7200	5893.1	7754.5	11900.0	10115.0	3124.1	4094.2	10365.0	8810.3
Dec-10	1.4843	1.8951	3.2000	2.7200	4721.3	6824.6	11900.0	10115.0	3305.6	3826.3	10365.0	8810.3
Jan-11	1.4552	1.7536	3.2000	2.7200	4485.0	6477.5	11900.0	10115.0	2883.3	3603.1	10365.0	8810.3
Feb-11	1.4788	1.6536	3.2000	2.7200	6340.2	6182.2	11900.0	10115.0	3044.7	3417.1	10365.0	8810.3
Mar-11	1.6563	1.5607	3.2000	2.7200	7855.2	5937.0	11900.0	10115.0	3554.3	3241.9	10365.0	8810.3
Apr-11	1.6258	1.5067	3.2000	2.7200	7390.1	5905.0	11900.0	10115.0	3507.1	3193.7	10365.0	8810.3
May-11	1.4705	1.5110	3.2000	2.7200	7194.3	6259.8	11900.0	10115.0	3202.7	3192.7	10365.0	8810.3
Jun-11	1.4068	1.5099	3.2000	2.7200	5990.4	6277.9	11900.0	10115.0	3010.4	3167.9	10365.0	8810.3
Jul-11	1.4224	1.5038	3.2000	2.7200	8055.5	6233.7	11900.0	10115.0	3930.3	3230.9	10365.0	8810.3
Aug-11	1.4816	1.4993	3.2000	2.7200	6716.0	6218.1	11900.0	10115.0	3287.4	3245.1	10365.0	8810.3
Sep-11	1.4718	1.4891	3.2000	2.7200	7531.6	6356.2	11900.0	10115.0	3310.3	3220.8	10365.0	8810.3
Oct-11	1.4422	1.4891	3.2000	2.7200	5317.2	6457.5	11900.0	10115.0	4104.1	3355.4	10365.0	8810.3
Nov-11	2.0920	1.5406	3.2000	2.7200	9116.7	6726.1	11900.0	10115.0	5215.6	3529.6	10365.0	8810.3
Dec-11	2.1713	1.5979	3.2000	2.7200	10983.3	7248.0	11900.0	10115.0	6190.2	3770.0	10365.0	8810.3
Jan-12	1.6978	1.6181	3.2000	2.7200	11675.0	7847.1	11900.0	10115.0	4985.1	3945.2	10365.0	8810.3
Feb-12	1.8441	1.6486	3.2000	2.7200	9127.1	8079.4	11900.0	10115.0	4098.4	4033.0	10365.0	8810.3
Mar-12		1.6478	3.2000	2.7200		8099.7	11900.0	10115.0		4076.5	10365.0	8810.3
Apr-12		1.6501	3.2000	2.7200		8170.7	11900.0	10115.0		4133.5	10365.0	8810.3
May-12		1.6700	3.2000	2.7200		8279.2	11900.0	10115.0		4236.9	10365.0	8810.3
Jun-12		1.7029	3.2000	2.7200		8565.3	11900.0	10115.0		4390.2	10365.0	8810.3
Jul-12		1.7430	3.2000	2.7200		8638.1	11900.0	10115.0		4455.9	10365.0	8810.3

Month/Year	Flow, Avg	12 Month average	Design	85%	BOD Avg	12 Month average	Limit	85%	TSS Avg	12 Month average	Limit	85%
Aug-12		1.7865	3.2000	2.7200		8958.5	11900.0	10115.0		4650.6	10365.0	8810.3
Sep-12		1.8495	3.2000	2.7200		9243.9	11900.0	10115.0		4918.7	10365.0	8810.3
Oct-12		1.9513	3.2000	2.7200		10225.5	11900.0	10115.0		5122.3	10365.0	8810.3
Nov-12		1.9044	3.2000	2.7200		10595.1	11900.0	10115.0		5091.2	10365.0	8810.3
Dec-12		1.7710	3.2000	2.7200		10401.1	11900.0	10115.0		4541.8	10365.0	8810.3
Jan-13		1.8441	3.2000	2.7200		9127.1	11900.0	10115.0		4098.4	10365.0	8810.3

Agency: EPA Region 10 - ID
Subscriber Agreement Number: 4a90d406-5cec-43a2-a698-1dfa401d5248
Generated On: 2011-06-28 13:22:38.0
Account Reference: 1600

NetDMR Subscriber Agreement Instructions Page
This form can be used for permits issued by: EPA Region 10 - ID

Purpose

The NetDMR Subscriber Agreement should be used by Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit holders that would like to apply to submit Discharge Monitoring Reports (DMRs) electronically, or change/update your reporting status information from a previously-submitted application. Submission of DMRs electronically is an alternative to using paper forms to fulfill the reporting requirements of the CWA NPDES program pursuant to 40 CFR 122.41(l)(4).

Basic Information on Who Should Fill Out the Subscriber Agreement

- To request use of electronic reporting for DMR information, the person that is authorized to sign discharge monitoring reports (DMRs) as described in 40CFR 122.22 (a) must sign this document as the Signatory Authority in Section E of this document.
- If the Signatory Authority (named in Section E) plans to electronically sign DMRs submitted through NetDMR, then this person will also sign as the Subscriber (named in Section F).
- If the Signatory Authority plans to have someone else sign and submit the electronic DMRs, then this individual must be a duly authorized representative as described in 40CFR 122.22(b) and the duly authorized representative must sign as the Subscriber (see Section F).
- If a Signatory Authority has more than one NPDES permit for which they are responsible, and the regulatory authority allows multiple permits on a single Subscriber Agreement, then this document allows the signatory authority to list multiple permits on a single Subscriber Agreement as long as the Subscriber is the same person for all the multiple permits listed.
- If the authority to electronically sign for a permit is to be delegated to multiple Subscribers, then each Subscriber needs to submit and sign a separate Subscriber Agreement.
- This Subscriber Agreement cannot be used to register multiple permits that are issued by different regulatory authorities.

Where to Submit

Print and mail the completed subscriber agreement below to your Clean Water Act permitting authority for their review at the address below. You should retain a hard copy.

EPA Region 10 - ID
Attn: Diane Davis MS - OCE-133
1200 6th Avenue, Suite 900
Seattle, WA 98101

Questions?

For help or questions please contact the EPA Region 10 - ID at 206-553-1296 or Davis.Diane@epa.gov. You will receive a confirmation email from netdmr-notification@epa.gov when your application has been processed and approved. Thank you for helping us reduce paper use by choosing to electronically submit your DMRs.

A. Subscriber Information

The Subscriber is the individual that intends to sign DMRs and signs this subscriber agreement in Section F.

User Name: rexm@cityofblackfoot.org
Subscriber Name: Rex Moffat
Organization: City Of Blackfoot
Email Address: rexm@cityofblackfoot.org
Phone Number: 208-785-8616

B. Permit Information

Signing privileges are requested for the following permits:

Permit ID	Facility Name	Facility Address	Relationship	Authorized By
ID0020044	BLACKFOOT, CITY OF	2025 RIVERTON ROAD BLACKFOOT WWTP BLACKFOOT, ID 83221		Mike Virtue

This request is (check one):

- ☐ NEW: the first request by this facility to use NetDMR reporting
- ☐ REQUEST FOR REACTIVATION: a re-activation of NetDMR reporting for a facility that had discontinued using NetDMR
- ☒ CONTINUATION WITH NEW AUTHORIZATION: an updated subscriber agreement submitted because the signatory authority and/or subscriber at the facility has changed
- ☐ RENEWAL: an updated form submitted when a permit application is submitted
Permit ID(s): _____
- ☐ INACTIVATION: Explain reason for inactivation in the box below and identify whether the inactivation is temporary or permanent
Permit ID(s): _____

Notes to Permitting Authority (Optional unless Inactivating):

C. Terms and Conditions

1. **PURPOSE:** The intent of this agreement is to create legally binding obligations upon the parties using the specified data transmission protocols and the NetDMR Reporting System, to ensure that the Certifier (in this document, Certifier refers to signers of this document -- both the Signatory Authority, and the Subscriber) agrees to: (i) Maintain the confidentiality and protect the electronic signature from unauthorized use or compromise, and follow any procedures specified by the Regulatory Authority for this purpose; (ii) Be held as legally bound, obligated, or responsible by use of the assigned electronic signature as by hand-written signature.
2. **VALIDITY AND ENFORCEABILITY:** This Agreement has been executed by the parties to evidence their mutual intent to follow Regulatory Authority procedures to create binding regulatory reporting documents using electronic transmission and receipt of such records, consistent with the provisions of 40 C.F.R. Part 3. Acceptance and execution of this agreement by the Regulatory Authority shall be evidenced by the issuance of a personal identification number (PIN) to the Certifier. Consistent with 40 C.F.R. Part 3 electronic signatures under this agreement shall have the same force and effect as a written signature. Pen and ink signatures will remain on file with the Regulatory Authority.
3. **RECEIPT:** A Document shall be deemed to have been received by the Regulatory Authority when it is accessible by the Regulatory Authority, can be fully processed and is syntactically correct to the specified electronic transfer protocol that may be modified from time to time by the Regulatory Authority. No Document shall satisfy any reporting requirement or be of any legal effect until it is received.

3.1 **COMPLIANCE TRACKING:** The Certifier understands that upon activation of the NetDMR account, EPA's database will be expecting to receive electronic transmission of DMR data at the interval specified in the permit. If the database does not receive the DMR from the Certifier at the expected time, the database will flag the DMR as being in non-receipt. If the Certifier chooses to discontinue using NetDMR and return to using paper forms, the Certifier must complete, sign, and submit to the regulatory authority a new subscriber agreement with the "Inactivation" check box selected. If the regulatory authority does not receive this form, it is likely that the system will continue to produce "non-receipt" flags (indicating reporting violations).
4. **VERIFICATION:** Upon receipt of a Document, NetDMR shall process the Document to make it accessible to the Regulatory Authority and the Certifier. The Certifier is responsible for the content of each transmission, in accordance with the associated certification statement, and for reviewing the accuracy of the processed document in accordance with the associated certification statement, and for reviewing the accuracy of the processed document information and as made available by the NetDMR system.
5. **SIGNATURE:** The Certifier shall adopt as its electronic signature any Personal Identification Number (PIN) assigned by the Regulatory Authority following acceptance of this Agreement.

The Certifier agrees that any such Signature affixed to or associated with any transmitted Document shall be sufficient to verify such party originated and possessed the requisite authority both to originate the transaction and to verify the accuracy of the content, in the format of the specified NetDMR transmission protocol or otherwise, at the time of transmittal. The Certifier also expressly agrees that each report it submits by using its PIN constitutes their agreement with the associated certification statement.

6. **SECURITY:** The parties shall take reasonable actions to implement and maintain security procedures necessary to ensure the protection of transmissions against the risk of unauthorized access, alteration, loss or destruction including, but not limited to: protecting the secrecy of passwords and electronic signatures and transmitting only files in an acceptable protocol.
7. **USE OF PIN:** Each Certifier shall be either the permittee or a person identified by the permittee as a representative authorized for signatory purposes by the permittee for each facility, person, or other entity for which information is being reported. If a PIN has been compromised or where there is evidence of potential compromise, it will be automatically or manually suspended. In addition, the Regulatory Authority will inactivate or revoke a PIN where the Certifier is no longer an authorized representative. Each Certifier expressly agrees that the Regulatory Authority may act immediately and unilaterally in any decision to suspend, inactivate, revoke, or otherwise disallow use of a PIN by any Certifier, where the Regulatory Authority believes that such action is necessary to ensure the authenticity, integrity or general security of transmissions or records, or where there are any actual or apparent violations of this agreement.
8. **INABILITY TO TRANSMIT OR FILE REPORTS ELECTRONICALLY:** No party shall be liable for any failure to perform its obligations in connection with any Electronic Transaction or any Electronic Document, where such failure results from any act or cause beyond such party's control which prevents such party from electronically transmitting or receiving any Documents, except that the Certifier is nonetheless required to submit records or information required by law via other means, as provided by applicable law and with the time period provided by such law.
9. **CONTINUATION OF OPERATIONS:** In the event that electronic submission of DMR data is not possible, it is the responsibility of the certifier to submit paper copies in accordance with the requirements of the authorizing permit. Failure to submit DMR data by the date required by the permit is a violation and will be recorded as such.
10. **SEVERABILITY:** Any provision of the Agreement which is determined to be invalid or unenforceable will be ineffective to the extent of such determination without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.
11. **TERMINATION AND RENEWAL:** The agreement may be terminated by either party. Upon termination of this agreement, the associated ability to submit electronic information through

NetDMR will also terminate. This subscriber agreement becomes effective upon notification of approval by the EPA Region 10 - ID to the Certifier (which may be either/or an automated message from the NetDMR software, or separate notification). The regulatory authority will normally provide notification of the effective date, but if no date is provided, the effective date is the next reporting cycle following the notification. The subscriber agreement will continue until modified by mutual consent or unless terminated with 60 days written notice by any party. The permittee must resubmit this form at the time that a new permit application is submitted or when permit responsibility transfers from one entity to another. This subscriber agreement should be periodically reviewed and amended or revised when required. The requirements of this subscriber agreement may, eventually, be incorporated into the NPDES permit so that they would be renewed at the time of each discharge permit reissuance. The regulatory authority reserves the right to approve or disapprove this subscriber agreement.

12. GOVERNING LAW: This Agreement shall be governed by and interpreted in accordance with 40 CFR 122, 40 CFR 3, and other applicable state provisions.

13. AGREEMENT:

◦ I agree:

- i. To protect my account and password from compromise, not allow anyone else to use my account, and not share my password with any other person;
- ii. To change my password if I believe it becomes known to any other person;
- iii. To promptly report to Regulatory Authority any evidence of the loss, theft, or other compromise of my account or password not later than one business day;
- iv. To notify Regulatory Authority, in writing, if I terminate my employment, am reassigned or any other change in my status that causes me to cease to be a certifier represent any of the requested sites for the organization's electronic reports to NetDMR. Notification should occur as soon as this change occurs;
- v. To review, in a timely manner, the email and onscreen acknowledgements and copies of documents submitted through my account to NetDMR;
- vi. To report any evidence of discrepancy between the document submitted, and what NetDMR received;
- vii. That in no event will Regulatory Authority be liable to me or my employer for any special, consequential, indirect or similar damages, including any lost profits or lost data arising out of the use or inability to use the software or of any data supplied therewith even if Regulatory Authority or anyone else has been advised of the possibility of such damages, or for any claim by any other party. Regulatory Authority disclaims all warranties, express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the software and the accompanying written materials.

I understand that I will be held as legally bound, obligated, and responsible by the electronic signature created as by a handwritten signature.

D. Inactivation/Removal

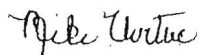
Permittee must indicate reason for inactivation in Section B of the form. This is done to inform the regulatory authority whether the permittee is switching back to paper DMRs, is no longer in business, or has a temporary reason for inactivation.

E. Signatory Authorization

The signatory authority is the appropriate individual identified under 40 CFR 122.22 with the authority to sign permit applications, reports, and other permit-required submittals (e.g., DMRs).

Permit ID(s): ID0020044

I, Mike Virtue Mayor, have the authority to enter into this Agreement for BLACKFOOT, CITY OF and Permit ID ID0020044 under the applicable standards. I request EPA Region 10 - ID grant Rex Moffat the ability to submit DMRs for Permit ID ID0020044.



Signatory Authority Signature

Mike Virtue
Mayor

Title

11/10/2011

Date

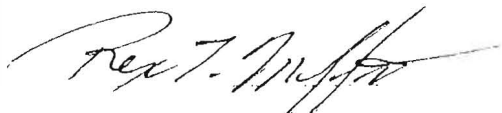
F. Subscriber Signature

The subscriber is the NetDMR user that submits this agreement to request to electronically sign DMRs. The subscriber is given signatory authority to sign reports and other information (e.g. DMRs) either under 40 CFR 122.22(a) or is delegated signatory authority by the individual(s) identified as the signatory authority in Section E of this agreement [See 40 CFR 122.22(b)].

Permit ID: ID0020044

I, Rex Moffat, am authorized by the signatory authority named in Part E of this document, who does have the authority under the applicable standards, to enter into this agreement for BLACKFOOT, CITY OF and Permit ID ID0020044.

By submitting this application to EPA Region 10 - ID I, Rex Moffat, have read, understand, and accept the terms and conditions of this subscriber agreement. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Subscriber Signature

11/10/11

Date

Print this form, save a copy for your records, and mail to:
EPA Region 10 - ID

ATTACHMENT D

Status Report

**City of Blackfoot, Idaho
Wastewater Treatment Facility**

(March 14, 2012 Inspection)

Facility Information		
Permit #	ID0020044	
Name	City of Blackfoot	
Contact	Mike Virtue, Mayor	Michael Merlette, W.P.C. Superintendent
Phone	208-785-8600	Phone: 208-785-8617 Cell: 208-681-8661
Address	157 N Broadway Blackfoot, ID 83221	
Previous Letters	April 13, 2006 Warning Letter, Concerning annual report for 2005 not received by EPA	
Employment Notice	Received January 10, 2011, Ron Hartwell no longer works for the City, send letters to Mayor Mike Virtue & W.P.C. Super intendment Michael Merlette	
Permit Review		
Permit Signed	October 26, 2000	
Permit Effective	November 28, 2000	
Permit Expired	November 28, 2005	
Expired?	No	
Re Application?	October 6, 2006	
New Permit/ Extended?	Administratively extended in ICIS	
EPA Response to Application	March 16, 2007 application complete	
Surface Water Monitoring Reports		
DMRQA (Provide further description in letter)	<ul style="list-style-type: none">Received October 3, 2011 Corrective actions taken as a result of an unacceptable value for chromium.Received December 4, 2009 Corrective action taken as a result of the not acceptable results on the DMRQA E. coli standard	
DMR Review		
DMR Review Date Range	March 2007 – January 2012 [on net DMR]	
Compliance Schedule	Total Residual Chlorine Requirements. a. Beginning October 30, 2000 and continuing until final installation of the ultraviolet disinfection system, the limitations in Part I.A.5. (1) Beginning April 30, 2001, and continuing semiannually until the ultraviolet disinfection process is fully implemented at the Blackfoot WWTP, the permittee shall submit a Report of Progress which outlines the progress made toward implementing ultraviolet disinfection. (2) Once ultraviolet disinfection has been fully implemented at the Blackfoot WWTP, and the permittee has notified EPA and IDEQ, the TRC limitations and monitoring requirements will no longer be applicable.	
Schedule	BODs, TSS, and Ammonia loading limits. a. When expansion of plant capacity to 5.1 MGD is completed, upon notification of EPA and IDEQ, the following limits shall apply: Part I.A.6 (BOD, TSS, Ammonia as N) b. Beginning April 30, 2001, and continuing semiannually until the plant upgrade is completed for the Blackfoot WWTP, the permittee shall submit a Report of Progress which outlines the progress made toward completing the plant upgrade.	
Missing DMRs	None	
DMRs sent late	None	
REC-1 (outfall)	Has never discharged so never sampled (based on DMRs)	
Data Entry Errors & Missing Info [Out fall 001A]		

2011:

- 12/2011: Sampled Alkalinity & Hardness
- 10/2011: Sampled Alkalinity & Lead
- 7/2011: Sampled Alkalinity
- 5/2011: Sampled Hardness
- 4/2011: Sampled Lead

2010:

- 6/2010: Sampled Alkalinity, Hardness & Lead

2009:

- None

2008:

- None

DMRs within last 5 years

144

Non Compliance Reporting

Received June 9, 2008: Concerning primary clarifier discharge line collapsing, was pumping influent channel to Bio-selector basin, without primary treatment, contractor hired to repair line, construction estimated 7-10 days

Inspection Review

Inspection Date

July 22, 2009

Inspector

Jennifer Wester

Inspected By

IDEQ

On Site Representative

Mike Merlette, Department Superintendent

Inspection Commentary

- One of the sludge digesters had developed hole
- Influent concentration of TSS was lower in the facility sample. No result reported for BOD.
- Edge of secondary clarifier has some algae growth
- Damage under the lip of the digester

	Month	Pollutant	Effluent Limitation	Value Reported in DMR	Limit Type
	March 2007	E. coli	406/100ml	900/100ml	Daily Maximum
	February 2008	TSS	45 mg/l	78.70 mg/l	Weekly Average
	February 2008	TSS	85%	74.53%	Monthly Average
	June 2008	TSS	30 mg/l	55.60 mg/l	Monthly Average
	June 2008	TSS	1126 lb/day	1238.50 lb/day	Weekly Average
	June 2008	TSS	45 mg/l	100.50 mg/l	Weekly Average
	June 2008	E. coli	126/100ml	805/100ml	Monthly Average
	June 2008	E. coli	406/100ml	1600/100ml	Daily Maximum
	June 2008	TSS	85%	63.20 %	Monthly Average
	February 2011	E. coli	406/100ml	540/100ml	Daily Maximum